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* * *	* *	* *	* *	* Welcome to STN International * * * * * * * * *
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NEWS	3	JAN	06	The retention policy for unread STNmail messages
				will change in 2009 for STN-Columbus and STN-Tokyo
NEWS	4	JAN	07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
				Classification Data
NEWS	5	FEB	02	Simultaneous left and right truncation (SLART) added
				for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	6	FEB		GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	7	FEB		Patent sequence location (PSL) data added to USGENE
NEWS	8	FEB		COMPENDEX reloaded and enhanced
NEWS	9	FEB		WTEXTILES reloaded and enhanced
NEWS	10	FEB	19	New patent-examiner citations in 300,000 CA/CAplus
				patent records provide insights into related prior
MEGG	11	מממ	1.0	art
NEWS	11	FEB	19	Increase the precision of your patent queries use terms from the IPC Thesaurus, Version 2009.01
NEWS	12	FEB	23	Several formats for image display and print options
MEMP	12	FED	23	discontinued in USPATFULL and USPAT2
NEWS	13	FEB	23	MEDLINE now offers more precise author group fields
INDIND	10	тпр	25	and 2009 MeSH terms
NEWS	14	FEB	23	TOXCENTER updates mirror those of MEDLINE - more
				precise author group fields and 2009 MeSH terms
NEWS	15	FEB	23	Three million new patent records blast AEROSPACE into
				STN patent clusters
NEWS	16	FEB	25	USGENE enhanced with patent family and legal status
				display data from INPADOCDB
NEWS	17	MAR	06	INPADOCDB and INPAFAMDB enhanced with new display
				formats
NEWS	18	MAR	11	EPFULL backfile enhanced with additional full-text
				applications and grants
NEWS	-	MAR		ESBIOBASE reloaded and enhanced
NEWS	20	MAR	20	CAS databases on STN enhanced with new super role
110110	0.1		0.0	for nanomaterial substances
NEWS	21	MAR	23	CA/CAplus enhanced with more than 250,000 patent
NIEMC	2.2	MAD	2 0	equivalents from China IMSPATENTS reloaded and enhanced
NEWS NEWS		MAR APR		CAS coverage of exemplified prophetic substances
CMTM	۷۵	AFK	U.S	enhanced
NEWS	24	APR	0.7	STN is raising the limits on saved answers
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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 15:47:06 ON 23 APR 2009

=> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION
0.22 0.22

FULL ESTIMATED COST

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=>

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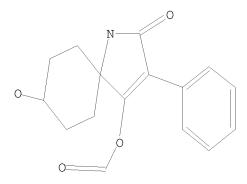
```
chain nodes :
17 18 19 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
3-7 8-19 11-18 14-17 19-20 20-21
ring bonds :
1 - 2 \quad 1 - 6 \quad 2 - 3 \quad 3 - 4 \quad 4 - 5 \quad 5 - 6 \quad 7 - 8 \quad 7 - 11 \quad 8 - 9 \quad 9 - 10 \quad 9 - 12 \quad 9 - 16 \quad 10 - 11 \quad 12 - 13 \quad 13 - 14
 14-15 15-16
exact/norm bonds :
7-8 \quad 7-11 \quad 8-9 \quad 8-19 \quad 9-10 \quad 9-12 \quad 9-16 \quad 10-11 \quad 11-18 \quad 12-13 \quad 13-14 \quad 14-15 \quad 14-17
15-16 19-20 20-21
exact bonds :
3 - 7
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :
```

#### Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS

## L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 15:47:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 103 TO ITERATE

100.0% PROCESSED 103 ITERATIONS 20 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 1452 TO 2668
PROJECTED ANSWERS: 132 TO 668

L2 20 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 15:47:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2127 TO ITERATE

100.0% PROCESSED 2127 ITERATIONS 326 ANSWERS

SEARCH TIME: 00.00.01

L3 326 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 185.88 186.10

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=> s 13L4167 L3

=> file req COST IN U.S. DOLLARS

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Page 5 saeed

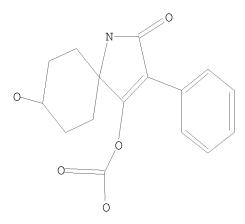
chain nodes : 17 18 19 20 21 23 ring nodes : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 chain bonds : 3-7 8-19 11-18 14-17 19-20 20-21 20-23 ring bonds :  $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 7-11 \quad 8-9 \quad 9-10 \quad 9-12 \quad 9-16 \quad 10-11 \quad 12-13 \quad 13-14$ 14-15 15-16 exact/norm bonds :  $7-8 \quad 7-11 \quad 8-9 \quad 8-19 \quad 9-10 \quad 9-12 \quad 9-16 \quad 10-11 \quad 11-18 \quad 12-13 \quad 13-14 \quad 14-15 \quad 14-17$ 15-16 19-20 20-21 20-23 exact bonds : normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 isolated ring systems : containing 1 :

#### Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 23:CLASS

## L5 STRUCTURE UPLOADED

=> d L5 HAS NO ANSWERS L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 15:49:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 38 TO ITERATE

100.0% PROCESSED 38 ITERATIONS 12 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 391 TO 1129 PROJECTED ANSWERS: 32 TO 446

L6 12 SEA SSS SAM L5

=> s 15 full

FULL SEARCH INITIATED 15:49:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 747 TO ITERATE

100.0% PROCESSED 747 ITERATIONS 169 ANSWERS

SEARCH TIME: 00.00.01

L7 169 SEA SSS FUL L5

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 185.88 372.98

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=> s 17 L8 163 L7

=> d ibib abs hitstr 140-163

ANSWER 140 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN SSION NUMBER: 2005:472122 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: 143:7595

TITLE:

INVENTOR(S):

143:7595
Preparation of of spirocyclic phenylpyrrolidinediones as herbicides
Erdelen, Christoph; Fischer, Reiner; Lehr, Stefan;
Drewes, Mark Wilhelm; Feucht, Dieter; Konze, Joerg;
Lossel, Peter; Malsam, Olga; Bojack, Guido; Arnold,
Christian; Auler, Thomas; Hills, Martin Jeffrey;
Kehne, Heinz; Rosinger, Christopher Hugh
Bayer Cropscience Aktiengesellschaft, Germany;
Lubos-Erdelen, Angelika
PCT Int. Appl., 126 pp.
CODEN: PIXXD2
Patent
German
1

DATENT ASSIGNEE(S) .

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE MO 2005049569 A1 20050602 W0 2004-EP1264 BW, AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MN, MX, NO, NZ, CM, PG, PH, PL, PT, RO, RU, SC, BS, SE, SG, TJ, TM, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, RN: BW, GH, GM, KE, LS, MN, MZ, NA, SD, SL, SZ, TZ, UG, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, EE, ES, FI, FR, GB, CB, HU, IE, IS, IT, LU, MC, NL, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, QQ, DE 10354629 A1 2004291286 BY, BZ, CA, CH, ES, FI, GB, GD, KP, KR, KZ, LC, MX, MZ, NA, NI, SG, SK, SL, SY, VI, ZA, ZM, ZW UG, ZM, ZW, AM, CY, CZ, DE, DK, NI, FL, FT, RO, GQ, GW, ML, MR,

20031122 AU 2004291286 CA 2546815 EP 1687272 20050602 20050602 20060809 AU 2004-291286 CA 2004-2546815 EP 2004-803114 A1 20041109 A1 20041109 20041109

EF 1687272 A1 20060809
R: AT, BE, CH, DE, DK, ES, FR,
IE, SI, FI, RO, CY, TR, BG,
BR 2004016209 A 20061226 GB, GR, IT, LI, LU, NL, SE, MC, FT, CZ, EE, HU, PL, SK, IS BR 2004-1629 20041109 CN 2004-80040780 20041109 CN 1914172 JP 2007513882 US 20070298969 20070214 20070531 JP 2006-540242 US 2007-578900 20041109 Ã1 20071227 20070308

> WO 2004-EP12644 W 20041109

DE 2003-10354629

OTHER SOURCE(S): MARPAT 143:7595

PRIORITY APPLN. INFO.:

ANSWER 140 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

CO-CH2-OMe

Title compds. I [A-B = together with the carbon atom form a hetrocyclic ring with provisos; G = COR1, C(-L)MR2, SO2R3, etc.; R1 = alky1, alkeny1, alkoxyalky1, etc.; R2 = halo-substituted alky1, alkeny1, alkoxyalky1, etc.; R3 = halo-substituted alky1, alkoxy, alkylamino, etc.; L = O, S; M

S] were prepared For example, methoxyacetic acid chloride O, S] were prepared ror comment, ...

O-alkylation of enol II, afforded phenylpyrrolidinedione III in 33.7% yield. In Myzus persicae protection assays at 500 g/ha, 4-examples of compds. I exhibited 80-100% protection after 7 days. Compds. I are claimed to be useful as harbicides.

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

(preparation of spirocyclic phenylpyrrolidinediones as herbicides) 852638-06-3 CAPLUS Carbonic acid, ethyl 3-(2-ethyl-4,6-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro(4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

(Continued)

III

ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2005:429395 CAPLUS

herbicides. 852638-06-3P 852638-08-5P 852638-09-6P

USES (Uses)

A 20031122

(Continued)

DOCUMENT NUMBER:

CAPLUS COPFRIGHT 2009 ACS on STN 2005:429395 CAPLUS 142:481941 142:481941 Preparation of of spirocyclic phenylpyrrolidinediones as herbicides Lehr, Stefan; Drewes, Mark Wilhelm; Feucht, Dieter; Loesel, Peter; Malsam, Olga; Bojack, Guido; Arnold, Christian; Auler, Thomas; Hills, Martin Jeffrey; Kehne, Heinz; Rosinger, Christopher Hugh Bayer Cropscience Aktiengesellschaft, Germany; Fischer, Reiner PCT Int. Appl., 151 pp. CODEN: PIXXD2 Patent German 1 INVENTOR(S):

PATENT ASSIGNEE(S):

KIND

DATE

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

WO 2005044796 RW:

APPLICATION NO.

DATE

DE 10351646 AU 2004287596 AU 2004-287596 CA 2004-2544537 EP 2004-797575 Α1 20050519 20041104 CA 2544537 EP 1697321 A1 A1 20050519 20060906 20041104 20041104 R: AT, BE, CH, DE, DK, IE, SI, FI, RO, CY, CN 1874997

2004104 ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, TR, BG, C2, EE, HU, PL, SK, IS 20061206 CN 2004-80032653 20041104 20070202 IN 2004-DE2196 20041104 BR 2004016267 IN 2004DE02196 US 20070129252 Α1 20070607 US 2006-578403 PRIORITY APPLN. INFO.: DE 2003-10351646 20031105 WO 2004-EP12443 W 20041104

OTHER SOURCE(S): MARPAT 142:481941

ANSWER 140 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

852638-08-5 CAPLUS Carbonic acid, 3-(2-ethyl-4,6-dimethylphenyl)-8-methoxy-2-oxo-1 azaspiro[4.5]dec-3-en-4-yl 2-propen-1-yl ester (CA INDEX NAME)

852638-09-6 CAPLUS

Carbonic acid, ethyl 3-(2-ethyl-4,6-dimethylphenyl)-2-oxo-8-propoxy-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & H & \\ & & N & \\ & & N & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

REFERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

Page 9 saeed

L8 ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Title compds. I [X = halo; Y = alkyl; Z = alkyl; A and B together with a heteroatom form a rim; (sid); G = H, CORI, SOR3; RI = alkyl, alkenyl, alkoxy, alkyl, etc.; R3 = halo substituted alkyl, alkoxy, alkylamino,

were prepared For example, intramol. Claisen condensation of Me ester II,

II,

afforded pyrrolidinedione III in 92% yield. In a Myzus persicae protection assay, at 100 ppm pyrrolidinedione III exhibited 75% protection

after 6 days. Compds. I are claimed to be useful as herbicides.

IT 852059-12-2P 852059-13-3P 852059-14-4P 852059-15-5P 852059-16-6F RL: AGR (Agricultural use); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES

USES

(Uses)

(preparation of spirocyclic phenylpyrrolidinediones as herbicides) 852059-12-2 CAPLUS Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

852059-16-6 CAPLUS
Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-(2-propenyloxy)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 141 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

852059-13-3 CAPLUS
Carbonic acid, cis-3-(2-chloro-6-ethyl-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

852059-14-4 CAPLUS Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-2-oxo-8-propoxy-1-azaspiro(4.5)dec-3-em-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

$$n\text{-Pro} \xrightarrow{\text{Br}} \text{Br}$$

852059-15-5 CAPLUS
Carbonic acid, cis-3-(2-bromo-6-ethyl-4-methylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

L9 ANSWER 142 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:54983 CAPLUS
DOCUMENT NUMBER: 142:129079

Synergistic insecticidal and acaricidal mixtures of cyclic keto-enols and phthalic acid diamides
Fischer, Reiner; Fischer, Redeiger; Funke, Christian;
Thielert, Wolfgang

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
CODEN: PIXXD2

DOCUMENT TYPE: CODEN: PIXXD2

DATENT INDEMMATION: COUNT: 1

FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	3, J	ΠP,	KE,	KG,	KP,	KR,	KZ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MO	3, N	4Κ,	MN,	MW,	MX,	ΜZ,	NA,	NI,
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												200		00.				5540	

OTHER SOURCE(S): MARPAT 142:129079

Page 10 saeed

L8 ANSWER 142 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

AB Combinations of cyclic keto-enols (I, X = halo, (halo)alkyl, (halo)alkoxy,
or CN; W, Y, Z = H or X; A = H, (halo)alkyl, etc.; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalkyl, cycloalkyl, heterocyclyl; G

H, COR, etc.; R = (halo)alkyl, etc.; A and B or A and D may form part of

ring) and phthalic acid diamides (II, K = H, CN, (halo)alkyl, (halo)alkoxy, Rel, Re2, Re3 = independently H, CN, (halo)a3kyl, etc.; L1, L2, L3 = independently H, halo, CN, etc.) exhibit excellent insecticidal and acaricide properties. Thus, Et 3-(2,5-dimethyl.phenyl)-8-methoxy-2-oxo-1-azaspiro[4,5]dec-3-en-4-ylcarbonate + N2-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N1-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]-1,2-benzenedicarboxamide (0.8 + 0.0064 ppm) synergistically controlled Plutella xylostella on cabbage.
827025-05-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL

IT

CM 1

CRN 382608-10-8 CMF C21 H27 N O5

ANSWER 142 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 382608-10-8 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

382608-14-2 CAPLUS
Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

REFERENCE COUNT:

FORMAT

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

L8 ANSWER 142 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

CM 2

272451-65-7 C23 H22 F7 I N2 O4 S

382608-08-4D, mixts. with phthalic acid diamides
382608-10-8D, mixts. with phthalic acid diamides
382608-14-2D, mixts. with phthalic acid diamides
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
(as synergistic insecticides and acaricides)
382608-08-4 CAPLUS
Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

ANSWER 143 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
SSION NUMBER: 2004:1127373 CAPLUS
MENT NUMBER: 142:56298
E: Preparation of N-heterocyclylphenyl-substituted ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: cyclic

ketoenols as pesticides and/or herbicides and/or microbicides.
Fischer, Reiner; Ullmann, Astrid; Bretschneider, Thomas; Lehr, Stefan; Kunz, Klaus; Konze, Joerg; Malsam, Olga; Drewes, Mark Wilhelm; Feucht, Dieter; Kuck, Karl-Beinz; Wachendorff-Neumann, Ulrike; INVENTOR(S):

Wahed Ahmed; Bojack, Guido; Auler, Thomas; Hills, Martin; Kehne, Heinz Bayer Cropscience Aktiengesellschaft, Germany PCT Int. Appl., 311 pp. CODEN: PIXXD2 Patent

PATENT ASSIGNEE(S):

German 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA'	TENT :	NO.			KIN		DATE			APP	LICAT	ION I	NO.		Ι	DATE	
WO	2004	1110	42				2004	1223		wo	2004-	EP61:	27		- 2	20040	607
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	ВВ	, BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	, SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD	, SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT	, BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT	, LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM	, GA,	GN,	GQ,	GW,	ML,	MR,	NE,
			TD,														
	1032										2003-						
											2004-					20040	
	2528										2004-						
EP											2004-						
	R:										, IT,			NL,	SE,	MC,	PT,
											, HU,						
	2004		39		A						2004-						
	1832				A						2004-					20040	
											2006-						
											2005-						
											2005-					20051	
	2006				A		2007	0831			2006-					20060	
IORIT	Y APP	LN.	INFO	. :						DE	2003-	1032	6386		A 2	20030	612
										WO	2004-	EP61:	27		W a	20040	607
										IN	2004-	DE10	70		A3 2	20040	608

OTHER SOURCE(S): MARPAT 142:56298

Page 11 saeed

ANSWER 143 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

$$Q1 = B \xrightarrow{DN} Q2 = A \xrightarrow{Q} Q3 = AN \xrightarrow{Q} Q3 =$$

Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, NO2, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio, etc.; W, Y =

halo, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO2, cyano; Z = (substituted) (unsatd.) heterocyclyl; K = Ql-Q3; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) (substituted) cycloalkyl, etc.; B = H, alkyl, alkynyalkyl; D = H, (substituted) alkyl, alkenyl, alkynyl, alkoxyalkyl, (unsatd.) cycloalkyl, etc.; B, AD = atoms to form (heterocyclic) ring; G = COR1, SO2R3, C(:L)MR2, etc.; L, M = O, S; R1 = (halo-substituted) alkyl,

l, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, etc.; R2 = (halo-substituted) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, etc.; R3 = (halo-substituted) alkyl, alkoxy, alkylamino, alkylthio, alkenylthio, cycloalkylthio, etc.], were prepared Thus, Me l-amino-4-methoxycyclohexanecarboxylate hydrochloride was stirred 5 min. with Et3N in THF; 2-methyl-5-[1-(4-chloropyrazolyl)]phenylacetic acid (preparation given) was added followed by stirring for 15 min. Et3N and

POC13

were added followed by 30 min. reflux to give 75% amide coupling product.
The latter was stirred with KOCMe3 in DMF at 40-60° to give 6% title compound (II). II at 100 ppm gave 85% kill of Spodoptera on cabbage leaves.

IT 810693-78-6P 810693-76-6P 810693-77-7P 810693-78-8P 810693-78-9P 810693-78-9P 810693-78-9P 810693-78-8P 810693-81-4P BL AGD (Aprice) Part Agd

81003-62-4P RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)

ANSWER 143 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

810693-78-8 CAPLUS
Carbonic acid, ethyl cis-3-[2-ethyl-4-(4-methoxy-1H-pyrazol-1-yl)-6-methylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

810693-79-9 CAPLUS

RN 810693-72-9 CAFLOS
CN Carbonic acid,
cis-3-[4-(4-chloro-1H-pyrazol-1-y1)-2-ethy1-6-methylpheny1]8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-y1 ethy1 ester (9CI) (CA INDEX

Relative stereochemistry.

ANSWER 143 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continue (prepn. of N-heterocyclylphenyl-substituted cyclic ketoenols as pesticides and/or herbicides and/or microbicides) 810693-75-5 CAPLUS (Continued)

Salosys-75-5 CAPLOS Carbonic acid, ethyl cis-8-methoxy-3-[4-(4-methoxy-1H-pyrazol-1-y1)-2,6-dimethylphenyl]-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX

Relative stereochemistry.

810693-76-6 CAPLUS Carbonic acid, cis-3-[4-(4-chloro-1H-pyrazol-1-yl)-2-ethylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

810693-77-7 CAPLUS Carbonic acid, ois-3-[4-(4-chloro-1H-pyrazol-1-y1)-2,6-dimethylphenyl]-8-methoxy/2-coxo-1-azaspiro(4.5]dec-3-en-4-y1 ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 143 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)
810693-81-3 CAPLUS
Carbonic acid,
3-[2-chloro-4-(4-chloro-1H-pyrazol-1-yl)-6-ethylphenyl]8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX

Relative stereochemistry.

810693-82-4 CAPLUS Carbonic acid, ois-3-[4-(4-chloro-1H-pyrazol-1-y1)-2,6-diethylphenyl]-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-y1 ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

Page 12 saeed

L8 ANSWER 144 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:964974 CAPLUS

DOCUMENT NUMBER: 414:390414

Synergistic nematocidal, insecticidal and acaricidal compositions based on trifluorobutynyl derivatives

Kraus, Anton; Ishikawa, Koichi

Bayer Cropscience Aktiengesellschaft, Germany;

Andersch, Wolfram

PCT Int. Appl., 47 pp.

COEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: PAMILY ACC. NUM. COUNT: 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

												LICAT						
												2004-						
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB	, BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
												, EC,						
												, JP,						
												, MK,						
												, SC,						
												, UZ,						
		RW:										, SZ,						
												, BG,						
												, MC,						
					BF,	ВJ,	CF,	CG,	CI,	CM,	GA	, GN,	GΩ,	G₩,	ML,	MR,	ΝE,	SN,
			TD,													_		
		2004										2003-						
												2004-						
	EP											2004-						
		K:										, HU,			NL,	SE,	MC,	PI,
	DD	2004										2004-				2	0040	420
	CM	1012	71 /			7.		2000	0923		CM	2004-	0001	0510		2	0040	420
	TD	2006	5252	5.1		т		2006	1109		.TD	2004	5051	99		2	0040	120
	TN	2005	DNO4	944		Ä		2007	1102		TN	2006- 2005-	DN 49	44		2	0051	027
												2005-						
												2006-						
PRIOR												2003-						
												2004-	PP 41	c 7		u 0	0040	420
											wo –	2004-	EP41	6/			UU 40	420

OTHER SOURCE(S): MARPAT 141:390414

ANSWER 144 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

REFERENCE COUNT:

L8 ANSWER 144 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

The title compns. comprise a trifluorobutylene derivative I (X = halo; n = 0.

= 0,
1 or 2) and a known insecticide.

1T 786675-36-3
R1. AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic mematocidal, insecticidal and acaricidal composition)
RN 786675-36-3 CAPLUS
CARDONIC acid,
3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, mixt. with 5-chloro-2-[(3,4,4-trifluoro-3-butenyl)sulfonyl]thiazole (9CI) (CA INDEX NAME)

CRN 382608-10-8 CMF C21 H27 N O5

CM 2

CRN 318290-98-1 CMF C7 H5 C1 F3 N O2 S2

IT 382608-10-8D, mixts. with trifluorobutynyl derivs.

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic nematocidal, insecticidal and acaricidal compns.)

RN 382608-10-8 CAPLUS

CN Carbonic acid,
3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

L0 ANSWER 145 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:778560 CAPLUS

TITLE: 41:277483

INVENTOR(S): Fischer, Reiner, Kunz, Klaus; Lehr, Stefan; Ruther, Michael; Schneider, Udo; Dollinger, Markus; Drewes, Mark Wilhelm; Feucht, Dieter; Konze, Joerg; Wachendorff-Neumann, Ulrike; Bojack, Guido; Auler, Thomas; Hills, Martin; Erdelen, Christoph

PATENT ASSIGNEE(S): Bayer Cropscience A.-G., Germany

GOURCE: GERMANNEY

DOCUMENT TYPE: LANGUAGE: German

FAMILY ACC. NUM. COUNT: FATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT II																	
											LICAT						
DE 1	10311	300			A1		2004	0923		DE	2003-	1031	1300		2	20030	314
AU 2	20042	204	45		A1		2004	0923		ΑU	2004-	2204	45		- 2	20040	302
	25186	20			A1		2004	0923		CA	2004-	2518	620		- 2	20040	
WO 2	20040	8096	52		A1		2004	0923		WO	2004-	EP20	53		2	20040	302
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	, BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	, SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL	, SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE	, BG,	CH,	CY,	CZ,	DE,	DK,	EE,
		ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU	, MC,	NL,	PL,	PT,	RO,	SE,	SI,
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA	, GN,	GQ,	GW,	ML,	MR,	NE,	SN,
		TD,	TG														
EP I	16062	54			A1		2005	1221		EP	2004-	7162	17		2	20040	302
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	HU,	PL,	SK
BR 2	20040	083	78		A		2006	0321		BR	2004-	8378			2	20040	302
	17879	94			A		2006	0614		CN	2004-	8001	3040		2	20040	302
JP 2	20065	2033	38		T		2006	0907		JP	2006-	5044	95		2	20040	302
CN 1	10119	5599	9		A		2008	0611		CN	2007-	1030	1095		2	20040	302
IN 2	2004D	E00	427		A		2009	0403		IN	2004-	DE 42	7		2	20040	312
											2006-						
IN 2	2007D	E02	738		A		2008	0801		IN	2007-	DE27	38		2	20071	227
PRIORITY	APPL	Ν. :	INFO	. :						DE	2003-	1031	1300		A 2	20030	314
										CN	2004-	8001	3040		A3 2	20040	302
										wo	2004-	EP20	53		W 2	20040	302

IN 2004-DE427

A3 20040312

OTHER SOURCE(S): MARPAT 141:277483

Page 13 saeed

ANSWER 145 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Substituted benzenes I [W = alkoxy; X = alkyl; Y = halogen; CKE = substituted heterocyclic or carbocyclic keto-enol] were prepared for use

insecticides, acaricides, nematocides, and herbicides. Thus, 3-chloro-5-methylphenol was etherified with allyl bromide, followed by Claisen rearrangement to give 2-allyl-5-chloro-3-methylanisole which was oxidized in two steps to 5-chloro-2-methoxy-6-methylphenylactic acid. This acid was amidated with Me 1-amino-4-methyl-1-cyclohexanecarboxylate and cyclized with KCCMe3 to give the spiropyrrole II. At 250 g/ha II

gave

100% inhibition of, e.g., Avena fatua while leaving sugar beet undamaged. II was also active against Aphis fabae, Meloidogyne, Myzus persicae, Nephotettix cinticeps, and others.

17 760210-10-4P

RL: AGR (Agricultural use); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 2,4,6-trisubstituted Ph cyclic keto-enols as herbicides and pesticides)

N 760210-10-4 CAPLUS

CN Carbonic acid, cis-3-(4-chloro-2-ethyl-6-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 146 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Title compds. [I; W = H, halo, alkyl, alkoxy; X = halo, alkyl, alkoxy, haloalkyl, haloalkoxy, cyano; Y = H, halo, cyano, alkyl, haloalkyl, Ph; Z = H, alkyl, halo; A = (substituted) (heteroatom-interrupted) alkylene; BAB

(substituted) alkenyl, alkoxy, Ph, heteroaryl, cycloalkyl, etc.; D = NH,
O; G = H, COR1, SO2R3, C(:L)NR6R7, etc.; L = O, S; R1 = (substituted)
alkyl, alkenyl, alkoxyalkyl, cycloalkyl, Ph, PhCH2, etc.; R3 =
(substituted) alkyl, alkoxy, alkylamino, alkylthio, Ph, PhCH2, PhS, etc.;
R6, R7 = H, (substituted) alkyl, cycloalkyl, alkenyl, alkoxy,
alkoxyalkyl,
Ph, PhCH2, etc.], were prepared Thus, title compound (II) at 1000 ppm
gave

100% control of Myzus persicae on cabbage leaves. 668460-13-7P 668460-14-8P 668460-15-9P 668460-16-0P 668460-17-1P RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

USES (Uses)

(Uses)
(preparation of spirocyclic pyrrolones as pesticides, herbicides, and fungicides)
(68460-13-7 CAPLUS
Carbonic acid,
8-(2-ethoxyethoxy)-2-oxo-3-(2,3,4,6-tetramethylphenyl)1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 146 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN SSION NUMBER: 2004:177952 CAPLUS MENT NUMBER: 140:235593 ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

140;235593
Preparation of spirocyclic pyrrolones as pesticides, herbicides, and fungicides.
Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Konze, Joerg; Loesel, Peter; Drewes, Mark-Wilhelm; Feucht, Dieter; Kuck, Karl Heinr; Wachendorff-Neumann, Ulrike
Bayer CropScience A.-G., Germany
Ger. Offen, 76 pp.
CODEN: GWXXBX

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

INVENTOR(S):

										API	PLICAT	ION :	NO.		D	ATE	
															-		
	1023										2002-					0020	
IN	2003	MUOO	783		A		2005	0304		IN	2003-	MU 78	3		2	0030	811
CF	2497	074			A1		2004	0325		CA	2003-	2497	074		2	0030	818
MC.	2004	0246	88		A1		2004	0325		WO	2003-	EP91	03		2	0030	818
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BI	3, BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	E	C, EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	E, KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	M	N, MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SI	z, SG,	SK,	SL,	SY,	TJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VI	d, YU,	ZA,	ZM,	ZW			
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	z, TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BO	G, CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MO	C, NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	Gζ	2, GW,	ML,	MR,	NE,	SN,	TD,	TG
AU	2003	2640	61		A1		2004	0430		ΑU	2003-	2640	61		2	0030	818
AU	2003	2640	61		B2		2008	1113									
EF	1537	080			A1		2005	0608		EP	2003-	7948	87		2	0030	818
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GE	R, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑI	TR,	BG,	CZ,	EE,	HU,	SK	
											2003-						
											2003-						
JE	2006	5030	27		T		2006	0126		JP	2004-	5350	99		2	0030	818
MΣ	2005	0021	18		A		2005	0523		MX	2005-	2118			2	0050	223
US	2007	0275	858		A1		2007	1129		US	2005-	5259	20		2	0050	225
PRIORIT	Y APP	LN.	INFO	. :						DΕ	2002-	1023	9479		A 2	0020	828
										WO	2003-	EP91	03		W 2	0030	818

OTHER SOURCE(S): MARPAT 140:235593

ANSWER 146 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

668460-14-8 CAPLUS
Carbonic acid,
3-(4-chloro-2,6-dimethylphenyl)-2-oxo-8-(2-propenyloxy)1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

668460-15-9 CAPLUS

CN Carbonic acid, ethyl cis-2-oxo-8-(phenylmethoxy)-3-(2,4,6-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

668460-16-0 CAPLUS Carbonic acid, ethyl 2-oxo-8-(phenylmethoxy)-3-(2,4,5-trimethylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

Page 14 saeed

ANSWER 146 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

668460-17-1 CAPLUS
Carbonic acid, cis-3-(2,5-dimethylphenyl)-2-oxo-8-(phenylmethoxy)-1azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 147 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Title compds. [I; X = alkyl, halo, alkoxy, haloalkyl, haloalkoxy; Y = H, alkyl, alkoxy, halo, haloalkyl, haloalkoxy;  $\Lambda$  = Cl-6 alkyl; G = H, COR1, COMR2; M = O, S; R1 = (halogenated) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, etc.;  $K^2$  = (halogenated) alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, etc.], were prepared Thus, a mixture of 3-(2,5-dimethyl)henyl)-4-hydroxy-8-methoxy-1-azaspic)[4.5]dec-3-en-2-one (preparation given) and Et3N in chlorobenzene was dropwise treated with

(preparation) given) and LESN in chlorobenere was dropwise treated with cloves the control of the control of the control of the control of control contr

Relative stereochemistry.

203313-25-1P RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);

(DSES) (preparation of cis-alkoxy-substituted spirocyclic lH-pyrrolidine-2,4-diones as insecticides)

ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

ANSMER 147 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ESSION NUMBER: 2004+57290 CAPLUS
LE: 140:111273
140:111273
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140:111273
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140:111273 INVENTOR(S):

Ralf
Bayer CropScience A.-G., Germany
Ger. Offen., 62 pp.
CODEN: GWXXBX
Fatent
German 1 PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	CENT I				KIN		DATE			API	LICA	LION	NO.		D.	ATE	
	1023						2004	0122		DE.	2002	-1023	1333		2	0020	711
CA	24921	096			A1		2004	0122		CA	2003	-2492	096		2	0030	701
CA	24921	096			C		2008	1223									
WO	2004	0074	48		A1		2004	0122		WO	2003	-EP69	80		2	0030	701
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BE	, BG	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	, KG	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	M	I, MW	MX,	MZ,	NI,	NO,	NZ,	OM,
		PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE	, SG	SK,	SL,	SY,	TJ,	TM,	TN,
		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VI	, YU	ZA,	ZM,	ZW			
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ	, UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG	, CH	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC	, NL	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ	, GW	, ML,	MR,	NE,	SN,	TD,	TG
	2003																
EP	1523	472			A1		2005	0420		EP	2003	-7403	94		2	0030	701
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IT	, LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR	, BG,	CZ,	EE,	HU,	SK	
BR	2003	0126	95		A		2005	0426		BR	2003	-1269	5		2	0030	701
CN	1692	099			A		2005	1102		CN	2003	-8216	34		2	0030	701
CIV	1003	7441:	9		С		2008	0312									
JP	2005	5380	73		T		2005	1215		JP	2004	-5204	51		2	0030	701
RU	2003 1692 1003 2005 2340	501			C2		2008	1210		RU	2005	-1036	19		2	0030	701
IN	20031	MUOO	579		A		2005	0304		IN	2003	-MU67	9		2	0030	703
EG	2348	4			A		2005	1203		EG	2003	-656			2	0030	709
MX	2005	0003	54		A		2005	0331		MX	2005	-364			- 2	0050	106
	2007																
	2005				A		2006	0329									
RIT	APP:	LN.	INFO	. :						DE	2002	-1023	1333		A 2	0020	711

WO 2003-EP6980

W 20030701

OTHER SOURCE(S): MARPAT 140:111273

(Continued)

ANSWER 147 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Co 203313-25-1 CAPLUS Carbonic acid, cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.

Page 15 saeed

ANSWER 148 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER:

2002:368233 CAPLUS 136:365293 DOCUMENT NUMBER:

130:303233 Synergistic insecticidal and acaricidal mixtures TITLE:

Symergistic insecticidal and acaric: containing cyclic ketoenols. Fischer, Reiner; Erdelen, Christoph Bayer Aktiengesellschaft, Germany PCT Int. Appl., 66 pp. CODEN: PIXXD2 Patent German INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

FAILMI	TIME OF	MAY I I	OIV:														
PA'	TENT	NO.			KIN	D	DATE			API	PLICAT	ION	NO.		D	ATE	
WO											2001-						
	W:										3, BG,						
											C, EE,						
											E, KG,						
											ı, Mw,						
										SI	K, SL,	ΤJ,	TM,	TR,	TT,	TZ,	UA,
							ZA,										
	RW:										z, TZ,						
											r, LU,						
											N, ML,						
DE	1005	5941			A1		2002	0523		DE	2000-	1005	5941		2	0001	110
IN	2001	MU01	031		A		2005	0304		ΙN	2001-	MU10	31		2	0011	022
AU	2002	0248	07		A		2002	0521		ΑU	2002-	2480	7		2	0011	029
											2001-						
BR	2001	0152	65		A		2003	0812		BR	2001-	1526	5		2	0011	029
											2001-						
	R:										R, IT,			NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑI	TR.						
JP	2004	5131	35		T		2004	0430		JP	2002-	5405	64		2	0011	029
JP	4224	298			В2		2009	0212									
HU	2004	0005	15		A2		2004	0830		HU	2004-	515			2	0011	029
HU	2004	0005	15		A3		2005	0329									
AT	3111	05			Т		2005	1215		AT	2001- 2001-	9933	77		2	0011	029
ES	2250	512			Т3		2006	0416		ES	2001-	9933	77		2	0011	029
AU	2002	2248	07		B2		2007	0524		ΑU	2002-	2248	07		2	0011	029
TW	2597	57			В		2006	0811		TW	2001-	9012	7599		2	0011	107
											2003-						
											2003-						
MX	2003	0041	40		A		2003	0819		MX	2003-	4140			2	0030	509
PRIORIT	Y APP	LN.	INFO	. :						DE	2000-	1005	5941		A 2	0001	110
										E.T.O.	2001-	nn10	474			0011	000
										WO	2001-	DE 12	4/4		w Z	0011	023

OTHER SOURCE(S): MARPAT 136:365293

AB The title binary mixts. consist of known cyclic ketoenols (Markush given) and any of 32 known acaricides (no examples).

IT 382608-08-40, mixts. with acaricides 382608-10-8D, mixts. with acaricides 382608-10, mixts. with acaricides RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(Continued)

L8 ANSMER 148 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Co (synergistic insecticidal and acaricidal compns.)

RN 322608-08-4 CAPLUS

CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

RN 382608-10-8 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

382608-14-2 CAPLUS Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro(4.5)dec-3-em-4-yl ethyl ester (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 149 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2009 ACS on STN 2002:293365 CAPLUS 136:320910 Synergistic insecticidal, fungicidal and acaricidal mixtures Fischer, Reiner, Wachendorff-Neumann, Ulrike Bayer Aktiengesellschaft, Germany PCT Int. Appl., 79 pp. CODEN: PIXXD2 Patent German 1

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT :																	
WO	2002	0301	99		A1		2002	0418		WO	20	01-	EP11:	126		2	0010	926
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BE	3,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	٠,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	ē,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	M	ī,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SI	,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VN,	YU,	ZA,	zw											
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	ζ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	II	Γ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	G۱	i,	ML,	MR,	NE,	SN,	TD,	TG	
DE	1004	9804			A1		2002	0418		DE	20	100-	1004	9804		2	0001	009
AU	2002	0139	67		A		2002	0422		AU	20	02-	1396	7		2	0010	926
EP	1326	495			A1		2003	0716		EP	20	01-	9823	60		2	0010	926
	R:	AT.	BE.	CH.	DE.	DK.	ES,	FR.	GB.	GF	۲.	IT.	LI.	LU.	NL.	SE.	MC.	PT.
							RO.											
BR	2001						2003						1449	1		2	0010	926
JP	2004	5107	93		т		2004	0408		JP	20	02-	5336	52		2	0010	926
TN	2001	мпоо	931		A		2005										0010	926
	2004				A1		2004										0030	403
	2003												3029				0030	
PRIORITY							2000	0021						9804		_		
111201111	. ILEE.		11.10										1001				0001	000
										WO	20	01-	EP11	126		W 2	0010	926

OTHER SOURCE(S): MARPAT 136:320810

R SOURCE(S): MARRAT 136:320810
The title mixts. comprise known cyclic ketoenole (Markush given) and any of 55 known insecticides, fungicides or acaricides, such as fluquinconazole, tebuconazole, bitertanol, triadimenol, triadimenol, triadimenol, difenoconazole, flusilazole, prochloraz, penconazole, etc. 382608-08-40, mixts. containing 382608-10-8D, mixts. containing 382608-14-2D, mixts. containing RL: AGR (Agricultural use); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (synergistic pesticidal mixts.) 382608-08-4 CAPLUS Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

ANSWER 149 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 382608-10-8 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

382608-14-2 CAPLUS
Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

Page 16 saeed

L8 ANSWER 150 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:184833 CAPLUS
TITLE: 2002:184833 CAPLUS
TITLE: Synengistic insecticidal and acaricidal compositions
INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: PAMILY ACC. NUM. COUNT: 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT :	NO.			KIN	D	DATE			API	PLICA	TION	NO.		I	ATE	
WO	2002	0198	24		A1		2002	0314		wo.	2001	-EP97	31		2	0010	823
												BR.					
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	E	, EE	, ES,	FI.	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	K	E, KG	, KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	M	I, MW	, MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SI	, TJ	, TM,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VN,	YU,	ZA,	ZW										
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	z, Tz	, UG,	ZW,	AT,	BE,	CH,	CY,
												, MC,					
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GV	, ML	, MR,	NE,	SN,	TD,	TG	
DE	1004	3610			A1		2002	0314		DE	2000	-1004 -8211 -2420	3610		2	20000	905
AU	2001	0821	19		A		2002	0322		ΑU	2001	-8211	9		2	20010	823
CA	2420	874			A1		2003	0228		CA	2001	-2420	874		2	20010	823
BR	2001	0140	43		A		2003	0729		BR	2001	-1404	3		2	20010	823
EP	1330	161			A1		2003	0730		EP	2001	-9607	02		2	20010	823
	1330						2005										
	R:											, LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AI	TR						
CN	1452	457			A		2003	1029		CN	2001	-8151 -5243 -9607 -9607 -2821 -1097	23		2	20010	823
JP	2004	5083	08		T		2004	0318		JP	2002	-5243	16		-	0010	823
AT	3088	34			T		2005	1112		AT	2001	-9607	02		-	0010	823
ES	2248	3/8	10		T3		2006	0316		ES	2001	-9607	10		-	0010	823
AU	2001	032 2021	13		62		2006	1177		DIL	2001	2021	13		-	0010	023
CM	1015	022			7		2000	0221		CM	2005	-1010	5011		-	0010	023
												-1545					
												-MU81					
TW	2782	82	014		B		2007	0411		TW	2001	-9012	1713		2	20010	903
KR	7454	48			B1		2007	0803		KR	2003	-9012 -7021 -1824	60		3	20030	214
MX	2003	0018	24		A		2003	0604		MX	2003	-1824			2	0030	228
US	2004	0038	827		A1		2004	0226		US	2003	-3631	53		- 2	0030	228
	7084																
ZA	2003	0017	74		A		2004	0304		ZA	2003	-1774			2	0030	304
PRIORITY	APP	LN.	INFO	. :						DE	2000	-1004	3610		A 2	0000	905
										CN	2001	-8151	23		A3 2	0010	823
										WO	2001	-EP97	31		W 2	20010	823

ANSWER 150 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

MARPAT 136:228368

OTHER SOURCE(S):

382608-14-2 CAPLUS
Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Eto-

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 150 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

AB The title compns. comprise cyclic ketoenoles I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxy,
etc.; B = H or alkyl; D = H, (un)substituted (cyclo)alkyl, alkenyl or alkoxyalkyl, etc; ACD and ACD = ring; G = H, COR1, etc.; R1 = (halo)alkyl,
(halo)alkenyl, etc.] and any of 22 known insecticides and acaricides.
IT 382608-08-4D, mixts. containing 382608-10-8D, mixts. containing 382608-14-2D, mixts. containing RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(aynergistic insecticides and acaricides)
RN 382608-08-4 CAPLUS
CN Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

RN 382608-10-8 CAPLUS
CN Carbonic acid,
3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

L8 ANSWER 151 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:171603 CAPLUS
DOCUMENT NUMBER: 136:212331
Synergistic insecticidal and acaricidal mixtures
INVENTOR(S): Fischer, Reiner; Erdelen, Christoph
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
CODEN: PIXXD2
DOCUMENT TYPE: PATENT INFORMATION: German
FAMILY ACC. NUM. COUNT: 1
FAMILY ACC. NUM. COUNT: 1
FATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	FENT :				KIN	D	DATE				LICAT					ATE	
	2002										2001-						
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BE	3, BG,	BR,	BY,	BZ,	CA,	CH,	CN
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	E	, EE,	ES,	FI,	GB,	GD,	GE,	GH
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	KG,	KP,	KR,	KZ,	LC,	LK,	LR
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	M	I, MW,	MX,	MZ,	NO,	NZ,	PH,	PL
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SI	, TJ,	TM,	TR,	TT,	TZ,	UA,	UG
		US,	UZ,	VN,	YU,	ZA,	ZW										
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ,	UG,	ZW,	AT,	BE,	CH,	CY
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	17	r, LU,	MC,	NL,	PT,	SE,	TR,	BF
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	Gī	V, ML,	MR,	NE,	SN,	TD,	TG	
DE	1004	2736			A1		2002	0314		DΕ	2000-	1004	2736		2	0000	831
IN	2001	MUOO	799		A		2005	0304		IN	2001-	MU 79	9		2	0010	816
AU	2001	0917	81		A		2002	0313		ΑU	2001-	9178	1		2	0010	821
EP	1322	160			A1		2003	0702		EΡ	2001-	9719	35		2	0010	821
EP	1322	160			В1		2005	0316									
	R:										R, IT,		LU,	NL,	SE,	MC,	PI
											, TR						
BR	2001	0135	30		A		2003	0715		BR	2001-	1358	0		2		
HU	2003	0029	49		A2		2004	0128		HU	2003-	2949			2	0010	821
	2003																
	2004										2002-						
AT	2907	84			Т						2001-						
	1322										2001-						
ES	2238	480			Т3						2001-						
	1222				C						2001-						
	2275				C2		2006	0427		RU	2003-	1088	64		2	0010	821
ΑU	2001	2917	81		В2		2006	0831		AU	2001-	2917	81		2	0010	821
KR	8252 2004	22			B1		2008			KR	2003-	7024	45		2	0030	
US	2004	0044	066		A1		2004			US	2003-	3626	52		2	0030	224
							2006	0613			2003-				_		
MX	2003	0016	82		A		2003	0604		MX	2003-	1682			2	0030	225
					A		2004	0227		ZA	2003-	1615			_ 2	0030	227
RITS	APP:	LN.	INFO	. :						DE	2000-	1004	2736		A 2	0000	831
											2001-						

OTHER SOURCE(S): MARPAT 136:212331

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Page 17 saeed

ANSWER 151 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

The title mixts. comprise cyclic ketoenoles I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, etc.; B = H or alkyl; D = H, (cyclo)alkyl, alkenyl, alkoxyalkyl, etc.; ACB and ACD = ring; G = H, COZEt, iso-PrOO, etc.] and any of 43 known insecticides and acaricides.

32608-08-40, mixts. containing 382608-10-8D, mixts. containing 382608-14-2D, mixts. containing RL: ACR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic insecticides and acaricides)

32608-08-4 CAPLUS
Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

382608-10-8 CAPLUS

NN 30cB00-10-0 CAPLOS
CN Carbonic acid,
3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

RN 382608-14-2 CAPLUS

ANSWER 151 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Contin Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1 azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME) (Continued)

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 152 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
SSION NUMBER: 2002:71795 CAPLUS
MENT NUMBER: 136:114257
Synergistic insecticidal and acaricidal mixtures
NTOR(S): Fischer, Reiner; Erdelen, Christoph
NTOR ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
CC: COPEN: FIXAD2
MENT TYPE: COPEN: FIXAD2
MENT TYPE: PATENT
LUGGE: German
LY ACC. NUM. COUNT: 1 L8 ANSWER 152 OF :
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE: DOCUMENT TYPE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT :	NO.			KIN	D	DATE			APPL:	ICAT	I NOI	NO.		D	ATE	
						-									-		
WO	2002	0056	48		A1		2002	0124		WO 21	001-	EP78	54		21	0010	709
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NO,	NZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,
		UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM		
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,				GΑ,		GW,	ML,	MR,	NE,	SN,	TD,	TG		
DE	1003	5012			A1		2002	0131		DE 21	-000	1003	5012		21	0000	719
PRIORITY	APP.	LN.	INFO	. :						DE 2	-000	1003	5012	2	A 21	0000	719

MARPAT 136:114257 OTHER SOURCE(S):

AB Mixts. containing cyclic keto enols I [X = halo, (halo)alkyl, (halo)alkoxy, or CN; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; D = H, (un)substituted alkyl, alkoxyalkyl, cycloalkyl or heterocyclyl; G

G = H, COR, etc.; A and B or A and D amy form part of a ring] and ≥1 compound chosen from among amitraz, buprofezin, pymetrozine, pyriproxyfen, triazamate and IKI 220 possess excellent insecticidal and acaricidal properties. Thus, 4-hydroxy-8-methoxy-3-(2,3,4,6-tetramethylphenyl)-1- azaspiro[4.5]dec-3-en-2-one + pymetrozin (1:1) synergistically controlled Myrus persicae on cabbage leaves.

IT 382608-08-40, mixts. containing 382608-10-8D, mixts. containing 382608-14-2D, mixts. containing RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 152 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Co (synergistic insecticidal and acaricidal mixts.)

33608-00-4 CAPLUS
Carbonic acid, 3-(2-bromo-5-methylphenyl)-8-methoxy-2-oxo-1-araspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME) L8 (Continued)

RN 382608-10-8 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

382608-14-2 CAPLUS
Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azspiro(4.5)dec-3-en-4-yl ethyl ester (CA INDEX NAME)

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ANSWER 153 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

136:49745
Synergistic insecticidal and acaricidal compositions.
Fischer, Reiner; Erdelen, Christoph
Bayer A.-G., Germany
PCT Int. Appl., 63 pp.
CODEN: PIXXD2
Patent
German
1 TITLE: INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT :	NO.			KIN	D :	DATE							NO.			ATE	
WO	2002	0000:	25		A1		2002	0103									0010	
	W:	AE.	AG.	AL.	AM.	AT.	AU.	AZ.	BA.	BI	3.	BG.	BR.	BY.	BZ.	CA.	CH,	CN.
																	GE.	
		GM.	HR.	HU.	ID.	IL.	IN.	IS.	JP.	KE	Ē.	KG.	KP.	KR.	KZ.	LC.	LK,	LR.
																	PL,	
		RO.	RU.	SD.	SE.	SG,	SI.	SK.	SL.	Td	Τ,	TM.	TR.	TT.	TZ.	UA.	UG,	US.
					ZA.													
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	Ζ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	17	Γ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	MI		MR,	NE,	SN,	TD,	TG		
DE	1003	6896			A1		2002	0110		DE	20	000-	1003	6896		2	0000	728
IN	1003 2001 2001	MUOO	553		A		2005	0304		IN	20	01-1	MU55	3		2	0010	615
BR	2001	0120	70		A		2003	0401		BR	20	01-	1207	0		2	0010	618
EP	1298	995			A1		2003	0409		EP	20	01-	9435	17		2	0010	618
EP	1298	995			B1		2006	0208										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GI	٨,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AI	٠,	TR						
JP	2004 2004	5011	69		T		2004	0115		JP	20	002-	5048	19		2	0010	618
HU	2004	0004	93		A2		2004	0830		HU	20	004-	493			2	0010	618
CN	1226	925			C		2005	1116		CN	20	001-	8148	84		2	0010	618
AT	2004 1226 3172 2256 2001 2291 2277 7970	23			Т		2006	0215		AΤ	20	01-	9435	17		2	0010	618
ES	2256	257			Т3		2006	0716		ES	20	01-	9435	17		2	0010	618
AU	2001	2660	75		B2		2007	0118		ΑU	20	01-	2660	75		2	0010	618
RU	2291	617			C2		2007	0120		RU	20	003-	1026	05		2	0010	618
EG	2277	9			A		2003	0831		EG	20	001-	598			2	0010	627
KR	7970	06			B1		2008	0122		KR	20	002-	7169	04		2	0021	212
US	2003	0148	999		A1		2003	0807		US	20	002-	3121	49		2	0021	219
US	2003 6994 2002	866			B2		2006	0207										
MX	2002	0129	37		A		2004	0730		MΧ	20	002-	1293	7		2	0021	219
	2002																	
US	2006	0051	386		A1		2006	0309										
RIORIT	APP:	LN.	INFO	. :													0000	
										DE	20	000-	1003	6896		A 2	0000	728
										WO	20	001-	EP68	41		W 2	:0000 :0010 :0021	618
										US	20	002-	3121	49		A3 2	0021	219

ANSWER 153 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

The title compns. comprise a cyclic ketoenol I [X = halo, (halo)alkyl, (halo)alkoxy or cyano; W, Y, Z = H or X; A = H, (halo)alkyl, (halo)alkoxyalkyl, (un)substituted cycloalkyl or heterocyclyl; B = H or alkyl; D = H, (un)substituted alkyl, alkenyl, alkoxyalyl, cycloalkyl or heterocyclyl; ACB and ACD = ring; G = H, C(O)R, etc; R = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)alkylthioalkyl, etc.] and any a pyrethroid, such as acrinathrin, alpha-cypermethrin, betacyfluthrin, cyhalothrin, cypermethrin, deltamethrin and esfenvalerate.

382608-08-4D, mixts. with pyrethroids 382608-10-4D, mixts. with pyrethroids 382608-10-8D, mixts. with pyrethroids 382608-10-8D, [Sinch Sinch Si

RN 382608-10-8 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

ANSWER 153 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

MARPAT 136:49745

OTHER SOURCE(S):

382608-14-2 CAPLUS
Carbonic acid, 3-(4-chloro-2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 154 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STN ACCESSION NUMBER: 2001:747747 CAPLUS DOCUMENT NUMBER: 135:288687 Preparation of aryl-substituted Extended States

Preparation of aryl-substituted heterocyclic

INVENTOR(S):

as pesticides and herbicides. Ruther, Michael; Hagemann, Hermann; Schneider, Udo; Dollinger, Markus; Dahmen, Peter;

Wachendorff-neumann,

Ulrike; Fischer, Reiner; Graff, Alan; Bretschneider, Thomas; Erdelen, Christoph; Drewes, Mark Wilhelm; Feucht, Dieter; Lieb, Folker
Bayer Aktiengesellschaft, Germany; et al. PCT Int. Appl., 243 pp.
CODEN: FIXXD2

SE: ACC.	NUM	1. COU		Ger	man											
TENT	NO.			KIN	D	DATE			API	PLICA	TION	NO.		Ι	ATE	
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	DE	, DK,	ES,	FI,	FR,	GB,	GR,	IE,	II	r, LU	, MC,	NL,	PT,	SE,	TR,	BF,
	BJ	r, CF,	CG,	CI,	CM,	GA,	GN,	GW,	MI	, MR	, NE,	SN,	TD,	TG		
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1 240	4868	3														
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1 143	1996			A		2003	0723		CM	2001	-8106	51		2	0010	321
1 130	9709			C		2007	0411									
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1 163	1878	3		A		2005	0629		CN	2004	-1009	7484		2	0010	321
782	557			B2		2005	0811		AU	2001	-4421	5		2	0010	321
4 JOS	02/2			A		2005	1012		CN	2005	1205	1254		-	0010	321
) 220 1 100	0043	,		0.2		2006	1220		CM	2002	1010	1402		-	0010	221
1 100	2200			2		2000	0000		CIV	2000	1010	2020		-	0010	221
7 300	2006	076		7.		2007	0020		CIV	2006	-1017	2020		-	0030	027
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200	3021	6260		A1		2003	1120		IIS	2002	-2393	31		2	0021	216
105	7369			A1		2007	1116		HK	2004	-1002	17		2	0040	112
1 200	5232	267		A1		2005	1208		AII	2005	-2322	67		2		
7 200	5232	267		B2		2008	0821			2000	0000					100
ry Af	PLN.	INFC	.:						DE	2000	-1001	6544		A 2	0000	403
									AU	2001	-4421	5		A3 2	0010	321
									CN	2001	-8106	51		A3 2	0010	321
	EE: ACC. INFC AC	EE: ACC. NUM INFORMAT ACC. NUM INFORMAT ACC. NUM INFORMAT ACC. NUM	JE: ACC. NUM. COU INFORMATION: ACC. NUM. COU INFORMATION: ATTEM TNO	JE: ACC. NUM. COUNT: INFORMATION: INFORMATIO	EE: Ger ACC. NUM. COUNT: 1 INFORMATION: 1 INFORMATION: 1  ATENT NO.	EE: German ACC. NUM. COUNT: 1 INFORMATION:  ATENT NO	ACC. NUM. COUNT: 1 INFORMATION:  XTENT NO.  W: AE, AG, AL, AM, AT, AU, CO, CR, CU, CZ, DE, DK, HR, HU, ID, II, IN, IS, LT, LU, LV, MA, MD, MG, RU, SD, SE, SG, SI, SK, VN, YU, ZA, ZW DE, DK, ES, FI, FR, GB, BJ, CF, CG, CI, CM, GA, 2020109370 A1 2003 XIE, SI, LT, LV, FI, FO, RI, SI, LT, LV, FI, FO, RI, SI, LT, LV, FI, RO, RI, AI, BE, CH, DE, DK, ES, RI, SI, LT, LV, FI, RO, RI, AI, SE, CH, DE, DK, ES, RI, SI, LT, LV, FI, RO, RI, AI, SE, CH, DE, DK, ES, RI, SI, LT, LV, FI, RO, RI, SI,	SE: GERMAN ACC. NUM. COUNT: 1 INFORMATION: 1 INFORMATION: 1  ATENT NO. KIND DATE	SE: German ACC. NUM. COUNT: INFORMATION:  ATENT NO.  DO01074770  A1 20011011 W: AE, AG, AL, AM, AT, AU, AZ, BA, CC, CR, CU, CZ, DE, DK, DM, DZ, RH, HU, ID, II, IN, IS, JP, KE, LT, LU, LV, MA, MD, MG, MK, MM, RU, SD, SE, SC, SL, SK, SK, TJ, VN, YU, ZA, ZW  BW: GH, GM, KE, LS, MW, MZ, SD, SL, BB, CF, CG, CI, CM, GA, GW, CW, CM, CW, CW, CM, CW, CW, CW, CW, CW, CW, CW, CW, CW, CW	SE: German ACC. NUM. COUNT: 1 INFORMATION:  ATENT NO. KIND DATE API DECOMPTION: 1 20011011 WO W: AE, AG, AL, AM, AT, AU, AZ, BA, BI HR, HU, ID, II, IN, IS, JF, KE, KE, LT, LU, LV, MA, MD, MG, MK, MN, MC RU, SD, SE, SG, SI, SK, SL, IJ, TD WN, YU, ZA, ZW DE, DK, ES, FI, FR, GB, GR, IE, ID BJ, CF, CG, CI, CM, GA, GN, GN, MA 2 10016544 A1 20011011 DE 2 10016544 A1 20011011 DE 2 120016544 A1 20010030 CA 2 1280770 A1 20030205 EP R: AT, BE, CH, DE, DK, ES, FR, GB, GI IE, SI, LT, LV, FI, KO, MK, CY, AI N 1401976 A 20030205 EP N 1401976 A 20030205 DR N 14019770 A1 20030205 EP N 14019770 A 20030205 EP N 1401978 A 20030205 CP N 1401978 A 20030205 CP N 1401978 A 20030205 CP N 1401978 A 20030205 CN N 1401978 A 20050621 CN N 1802078 A 20050620 CN N 1802079 A 2005021012 CN N 1802078 A 20050620 CN N 19020770 A 20050777 CM N 1802078 A 2005077 CM N 1802078 A 2005080 A 2005077 CM	SE: GERMA ACC. NUM. COUNT: 1 INFORMATION:   **XTENT NO.	SE: German ACC. NUM. COUNT: 1 INFORMATION:  NTENT NO. KIND DATE APPLICATION DO 2001074770 A1 20011011 W0 2001-EP32 W: AR, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BR, BR, BR, BR, BR, BR, BR, BR, BR	SE: German ACC. NUM. COUNT: 1 INFORMATION:  NTENT NO. KIND DATE APPLICATION NO.  2001074770 A1 20011011 W0 2001-EF3215 C, C, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, HR, HU, ID, II, IN, IS, JP, KE, KG, KP, KR, GB, RH, HU, ID, III, IN, IS, JP, KE, KG, KP, KR, KD, KP, KD, KD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, VN, YU, ZA, ZW BW: GH, GM, KE, LS, WW, MZ, SD, SL, SZ, TZ, UG, ZW, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI, BJ, CF, CG, CI, CM, GA, GN, GW, MM, MM, MK, MR, NS, ND, SL, SZ, TZ, UG, ZW, A204868 P1280770 A1 200100101 R: AT, BE, CH, DE, DK, ES, FF, GB, GR, IT, LI, LU, LG, SI, SI, SI, SI, SI, SI, SI, SI, SI, SI	SE: German ACC. NUM. COUNT: INFORMATION:  XTENT NO.  XIND DATE  APPLICATION NO.  3 2001074770  A1 20011011  WC 2001-EP3215  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CC, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GB, RR, HU, ID, II, IN, IS, JF, KE, KG, KP, KR, KZ, LC, LT, LU, LV, MA, MD, MG, MK, MM, MW, MX, MZ, NO, NZ, VN, YU, ZA, ZW  BW: GR, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, BJ, CF, CG, CI, CX, CA, GW, GW, LM, MM, MM, MX, MX, ND, NZ, C10016544  A1 20010910  R: AT, BE, CH, DE, DK, ES, FF, GB, GR, IT, LI, LU, NL, LS, SI, SI, SI, SI, SI, SI, SI, SI, SI, S	SE: GERMA ACC. NUM. COUNT: INFORMATION:  XIENT NO. KIND DATE APPLICATION NO. INCLUDED TO THE CONTROL OF THE COUNTY.  2001074770 A1 20011011 W0 2001-pF3215 2 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, RR, HU, ID, II, IN, IS, FY, KE, KG, KF, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MG, MK, MM, MW, MW, MZ, NO, NZ, PL, RU, SU, SE, SC, SL, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, DE, DE, DK, ES, FT, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BJ, CF, CG, CI, CM, GA, GW, ML, MM, MM, MM, MM, MM, MM, MM, MM, MM	EE: GERMA ACC. NUM. COUNT: 1 INFORMATION:  **XIENT NO. KIND DATE APPLICATION NO. DATE

Page 19 saeed

ANSWER 154 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN CN 2004-10097484 (Continued) A3 20010321

> W 20010321 WO 2001-EP3215

OTHER SOURCE(S): MARPAT 135:288687

$$Q^1 = B$$
 $DN$ 

$$Q^2 = A$$

Title compds. I; [W = H, alkyl, alkenyl, alkynyl; X = alkyl, alkenyl, alkynyl; Y = H, Me, Et, Me2CH, alkenyl, alkynyl; Z = H, alkyl, alkenyl, alkynyl; ≥l of W, X, Y, Z = chain containing ≥2 C atoms; R = Ql, Q2, etc.; A = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, (substituted) (hetero)cycloalkyl, etc.; B = H, alkyl, alkoxyalkyl; AB, AD = atoms to form a (substituted) (hetero)cycloalcyl, etc.; G = H, alkyl, alkoxyalkyl; AB, AD = atoms to form a (substituted) (hetero)cycloalcyl, etc.; G = H, acyl], were prepared Thus, 2,4-diethyl-6-methylphenylacetic acid was

stirred with SOC12 and the residue in THF was added to a 0-10° solution of Me 2-amino-2-methylpropionate and Bt3N in THF followed by stirring from 1 h to give 66% amide, which was heated with KOCMe3 in DMF to give 56% title compound (II). II at 1000 ppm gave 100% kill of Nephotettix cincticeps on rice seedlings. 364374-04-9P 364374-07-2P 364374-08-3P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of aryl-substituted heterocyclic ketoenols as pesticides

IT

and herbicides)

REDICIOES/
RN 364374-04-9 CAPLUS
CN Carbonic acid, ethyl
cis-3-(4-ethynyl-2,6-dimethylphenyl)-8-methoxy-2-oxo1-azaspiro[4.5]dec-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 155 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 1999:708738 CAPLUS

DOCUMENT NUMBER:

APLUS COPYRIGHT 2009 ACS on STN 1999:708738 CAPLUS 131:310546 Arylphenyl-substituted cyclic keto enols as insecticides and acaricides Lieb, Folker; Fischer, Reiner; Graff, Alan;

INVENTOR(S):

Udo; Bretschneider, Thomas; Erdelen, Christoph;
Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger,
Markus; Wetcholowsky, Ingo; Feucht, Dieter; Pontzen,
Rolf; Myers, Randy Allen
Bayer A.-G., Germany
PCT Int. Appl., 245 pp.
CODEN: PIXXD2
Fatent
German 1

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

F	PATENT NO. K							DATE			APP	LICAT	ION	NO.		Ε	ATE	
-							-									-		
V	10	9955	673			A1		1999	1104		WO.	1999-	EP24	88		1	9990	414
		W:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG	, BR,	BY,	CA,	CH,	CN,	CU,	CZ,
			DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH	, GM,	HR,	HU,	ID,	IL,	IN,	IS,
			JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR	, LS,	LT,	LU,	LV,	MD,	MG,	MK,
			MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU	, SD,	SE,	SG,	SI,	SK,	SL,	TJ,
			TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU	, ZA,	ZW					
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG	, ZW,	AT,	BE,	CH,	CY,	DE,	DK,
			ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC	, NL,	PT,	SE,	BF,	ВJ,	CF,	CG,
			CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN	, TD,	TG					
Ι	Œ	1981	8732			A1		1999	1028		DE	1998-	1981	8732		1	9980	427
F	U	9934	215			A		1999	1116		AU	1999-	3421	5		1	9990	414
E	BR	9910	034			A		2000	1226		BR	1999-	1003	4		1	9990	414
Е	ЭP	1075	465			A1		2001	0214		EP	1999-	9157	59		1	9990	414
		R:	FR															
į.	ΓP	2002	5130	02		Т		2002	0508		JP	2000-	5458	33		1	9990	414
	JS	6451	843			В1		2002	0917		US	2001-	6739	07		2	0010	102
	JS	2003	0096	806		A1		2003	0522		US	2002-	1923	61		2	0020	710
RIORI	TY	APP	LN.	INFO	. :						DE	1998-	1981	8732		A 1	9980	427
											WO	1999-	EP24	88		W 1	9990	414

US 2001-673907 A3 20010102

OTHER SOURCE(S): MARPAT 131:310546

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

PR

ANSWER 154 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

364374-07-2 CAPLUS Carbonic acid, ethyl 3-(5-ethyl-2,4-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro(4.5]deo-3-en-4-yl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

364374-08-3 CAPLUS

Carbonic acid, cis-8-ethoxy-3-(5-ethyl-2,4-dimethylphenyl)-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L8 ANSWER 155 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Title compds. were prepared for use as insecticides and acaricides.

pyrrolinone I [R = Me, R1 = 4-ClC6H4, R2 = Me, R3 = C1] was prepared by treating I [R1 = Br] with 4-ClC6H4B(OH)2. I [R = OEt, R1 = 4-ClC6H4, R2

Cl, R3 = Me] at 1% gave 90% kill of Phaedon cochleariae and at 0.1% gave 95% kill of Tetranychus urticae.
247902-08-5P
RL: AGR (Agricultural use); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of biphenylpyrrolinones as insecticides and acaricides)
247902-08-5 CAPLUS
Carbonic acid,
3-(4',5-dichloro-2-methyl[1,1'-biphenyl]-4-yl)-8-ethoxy2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

FORMAT

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

Page 20 saeed

ANSWER 156 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: DOCUMENT NUMBER: 131:243180 Preparation of arylketoenols as pesticides and TITLE:

KIND DATE

herbicides. Lieb, Folker; Fischer, Reiner; Graff, Alan; INVENTOR(S):

Udo; Bretschneider, Thomas; Erdelen, Christoph; Andersch, Wolfram; Drewes, Mark Wilhelm; Dollinger, Markus; Wetcholowsky, Ingo; Myers, Randy Allen Bayer Aktiengesellschaft, Germany PCT Int. Appl., 267 pp. CODEN: PIXXD2 Patent German 1 PATENT ASSIGNEE(S):

APPLICATION NO

DATE

DOCUMENT TYPE: DOCUMENT TIPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO

												TION				ATE	
												-EP1					
	W:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG	, BF	, BY,	CA,	CH,	CN,	CU,	CZ,
		DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH	, GN	i, HR,	HU,	ID,	IL,	IN,	IS,
		JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LF	, LS	, LT,	LU,	LV,	MD,	MG,	MK,
		MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU	, SI	, SE,	SG,	SI,	SK,	SL,	TJ,
												, ZW					
	RW:											I, AT,					
												, PT,		BF,	ВJ,	CF,	CG,
		CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN	, TI	, TG					
DE	1981	3354			A1		1999	0930		DE	1998	-341 -275 -275	3354		1	9980	326
CA	2325	526			A1		1999	0930		CA	1999	-2325	526		1	9990	318
CA	2325	526			C		2009	0120									
ΑU	9934	147			A		1999	1018		ΑU	1999	-341	17		1	9990	318
ΑU	7512	56			B2		2002	8080									
BR	9909	143			A		2000	1205		BR	1999	-9143	3		1	9990	318
TR	2000	0275	2		T2		2000	1221		TR	2000	-2752	2		1	9990	318
EP	1066	258			A1		2001	0110		EP	1999	-9156	553		1	9990	318
EP	1066	258			В1		2005	1214									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	II	, LI	, NL					
JP	2002	5075	99		Т		2002	0312		JP	2000	-5378	352		1	9990	318
CN	1590	372			A		2005	0309		CN	2004	-1005	5755		1	9990	318
CN	1286	809			C		2006	1129									
CN	1600	772			A		2005	0330		CN	2003	-2003	31603	72	1	9990	318
CN	1319	929			C		2007	0606									
CN	1206	218			C		2005	0615		CN	1999	-8065	93		1	9990	318
AΤ	3128	18			T		2005	1215		AΤ	1999	-915	553		1	9990	318
ES	2252	940			Т3		2006	0516		ES	1999	-915	553		1	9990	318
IN	1999	DEOO	620		A		2007	0119		IN	1999	-DE62	20		1	9990	421
MX	2000	0093	59		A		2001	0419		MΧ	2000	-9359	9		2	0000	925
US	6458	965			B1		2002	1001		US	2001	-646	722		2	0010	102
US	2003	0073	851		A1		2003	0417		US	2002	- NL -5378 -1008 -2003 -2003 -9156 -9156 -02358 -646 -1423 -7308	325		2	0020	509
US	6693	092			B2		2004	0217									
US	2004	0127	365		A1		2004	0701		US	2003	-7305	556		2	0031	208
US	6806	264			B2		2004	1019									
IT	APP	LN.	INFO	. :						DE	1998	-1983	13354		A 1	9980	326

L8 ANSWER 156 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN CN 1999-806593 (Continued) A3 19990318 W 19990318 WO 1999-EP1787 US 2001-646722 A3 20010102 US 2002-142325 A3 20020509

OTHER SOURCE(S): MARPAT 131:243180

Title compds. [I; X = halo, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkyl, haloalkoxy, haloalkenyloxy, NO2, cyano, (substituted) Ph, PhO, PhS, phenylalkoxy, phenylalkylthio; Z = (substituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl,

cyano, (substituted) PM, FMO, FMO, PMO, PMO, PMO, PMO, PMO, Cyano, Cyano; Csubstituted) cycloalkyl, aryl, heteroaryl; W, Z = H, halo, alkyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, NO2, cyano; E = specified (substituted) dioxopyraryl, dioxofuryl, dioxothienyl, dioxopyrarolyl, dioxopyraryl, dioxofuryl, dioxothienyl, etc., residues], were prepared Thus, II (Q = Br) was stirred with
4-trifluoromethoxyphenylbozonic acid Pd(PFh3)4, and Na2COS in dimethoxyethane/H2O at 80° to give II (Q = 4-C6H4CCF3). I at 0.1% gave 95-100% kill of Myzus persicae on cabbage leaves.
II 244158-94-9P 244158-97-2P RL: AGR. (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation) of arylketoenols as pesticides and herbicides)
RN 244158-94-9 CAPLUS
CN Carbonic acid, 3-(4'-chloro-4-methyl[1,1'-biphenyl]-3-yl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

ANSWER 156 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

244158-97-2 CAPLUS
Carbonic acid,
'-chloro-4-methyl[1,1'-biphenyl]-3-yl)-8-methoxy-2-oxo1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester (CA INDEX NAME)

REFERENCE COUNT: 11

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

THERE ARE 11 CITED REFERENCES AVAILABLE FOR

ANSWER 157 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CAPLUS COPYRIGHT 2009 ACS on STN
1999.156021 CAPLUS
131:199616
Preparation of cyclic ketoenols as herbicides and
pesticides
Lieb, Folker; Fischer, Reiner; Graff, Alan; INVENTOR(S): Udo; Bretschneider, Thomas; Erdelen, Christoph;
Andersch, Wolfram; Drewes, Mark-Wilhelm; Dollinger,
Markus; Wetcholowsky, Ingo; Myers, Randy Allen
Bayer Aktiengesellschaft, Germany
PCT Int. Appl., 264 pp.
CODEN: PIXXD2
Patent
German
1 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	FENT	NO.			KIN:	D	DATE			API	PLI	CAT	ION I	MO.			DATE	
	9943				A1		1999	0902		wo	19	99-1	SP10:	29			19990	217
	W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BF	۲,	BY,	CA,	CH,	CN,	CU,	, CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	G№	1,	HR,	HU,	ID,	IL,	IN.	, IS,	JP,
		KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS	3,	LT,	LU,	LV,	MD,	MG,	MK,	MN,
		MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SI	),	SE,	SG,	SI,	SK,	SL,	, TJ,	TM,
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	Ζħ	Ī							
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZV	ī,	AT,	BE,	CH,	CY,	DE.	DK,	ES,
		FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NI	.,	PT,	SE,	BF,	ВJ,	CF	, CG,	CI,
		CM.	GA.	GM.	GM.	MI.	MR.	NE.	SM	TT	١.	TG						
DE	1980	8261			A1		1999	1028		DE	19	98-	1980	3261			19980 19990	227
CA	2322	158			A1		1999	0902		CA	19	99-2	2322	158			19990	217
ΑU	9925	231			A		1999	0915		ΑU	19	99-2	2523	1			19990	217
ΑU	7497	86			B2		2002	0704										
BR	9909	243			A		2000	1114		BR	19	99-9	9243				19990	217
EP	1056	717			A1		2000	1206		EP	19	99-9	0048	81			19990 19990 19990	217
EP	1056	717			В1		2005	0720										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	II	Γ,	LI,	NL					
JP	2002	5045	38		Т		2002	0212		JP	20	00-5	5334	07			19990 19990	217
AT	2998	64			Т		2005	0815		AT	19	99-9	0048	81			19990	217
ES	2244	174			Т3		2005	1201		ES	19	99-9	048	81			19990	217
CN	1280	271			C		2006	1018		CN	19	99-8	3055	20			19990	217
ZA	9901	568			A		1999	0827		ZA	19	99-	1568				19990	226
TW	2444	80			В		2005	1201		TW	19	99-8	8810:	2895			19990 19990 19990 19990 19990	226
IN	1999	DEOO	619		A		2007	0223		IN	19	99-1	DE61:	9			19990	421
MX	2000	0082	93		A		2000	0827		MX.	-20	100-8	3293				20000	824
US	6417	370			В1		2002	0709		US	20	00-6	5230	16			20001	023
US	2002	0188	136		A1		2002	1212		US	20	02-	1377	53			20020	502
US	6716	832			B2		2004	0406									20001 20020	
US	2004	0167	031		A1		2004	0826		US	20	04-	7775	28			20040	212
	7105																	
TTC	2006	0122	061		8.1		2006	0600		US	20	06-3	3306	01			20060	112
US	7288	676			B2		2007	1030										
US	2008	0081	807		A1		2008	0403		US	20	07-9	014	71			20070	917
RITS	APP	LN.	INFO	. :						DE	19	98-	1980	3261		A :	20000 20070 19980	227
																	19990	
										TTC	20			1.0			20001	

Page 21 saeed

L8 ANSWER 157 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN US 2002-137763 (Continued) A3 20020502 US 2004-777528 A3 20040212 US 2006-330601 A3 20060112 OTHER SOURCE(S): MARPAT 131:199616

Title compds. [I; R = enolic oxo(hetero)cyclic group, e.g., oxopyrrolinyl group II; A = H, (halo)alk(en)yl, (hetero)aryl, etc.; B = H or (alkoxy)alkyl; AB = atoms to complete a ring; D = H, alk(en)yl, (hetero)aryl, etc.; AD = atoms to complete a ring; G = H or acyl; R1 = halo, alkyl, alkoxy, phenyl(oxy), etc.; R2 = (un)substituted cycloalkyl

-(hetero)aryl; R3 = H, halo, alkyl, alkoxy, etc.] were prepared Thus, I

= group II, A = CHMe2, B = R1 = Me, D = G = H, R2 = Et)(III; R2 = Br) was condensed with 4-ClC6H4B(OH)2 to give III (R2 = C6H4Cl-4). Data for biol.

biol.

activity of I were given.

activity of I were given.

241144-9-0P 241144-50-3P 241144-51-4P
241144-52-5P
Rh: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of cyclic ketoenols as herbicides and pesticides)

RN 241144-49-0 CAPLUS
CN Carbonic acid,
3-(4'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*
RN 241144-50-3 CAPLUS

RN 24114-50-3 CAPLUS
CN Carbonic acid,
3-(3'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-8-methoxy-2oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*
RN 241144-51-4 CAPLUS
CN Carbonic acid,
3-(3'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-8-methoxy-2oxo-1-azaspiro[4.5]dec-3-en-4-yl phenyl ester (CA INDEX NAME)

L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1998:112341 CAPLUS
128:135287 A,35590a
Freparation of phenyl-substituted heterocyclic ketoenols as pesticides.
INVENTOR(S):
Lieb, Folker; Fischer, Reiner; Bretschneider, Thomas; Ruther, Michael; Graff, Alan; Schneider, Udo; et al.
PATENT ASSIGNEE(S):
Bayer A.-G., Germany; Lieb, Folker; Fischer, Reiner; Bretschneider, Thomas; Ruther, Michael; Graff, Alan; Schneider, Udo; et al.
Bayer A.-G., Germany; Lieb, Folker; Fischer, Reiner; Bretschneider, Thomas; Ruther, Michael; Graff, Alan; CODE: FIXMD2
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DATENT INFORMATION:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAI	ENT	. OF			KIN:	D	DATE									ATE	
	9805									wo 1	997-	EP39	73		1	9970	723
WO	9805						1998										
	W:						BA,										
							GE,										
							LU,										
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ΤJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,
		VN,															
	RW:																
							MC,		PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,
		GN,	ML,	MR,	NE,	SN,	TD,	TG									
	1971				A1		1998	0305		DE 1	997-	1971	6591		1	9970	421
IN	1997 9737	DE01	965		A		2005	0311		IN 1	997-	DE19	65		1	9970	715
ΑU	9737 7260	706			A		1998	0225		AU 1	997-	3770	6		1	9970	723
ΑU	7260	90			В2		2000	1102									
ΕP	9158	46			A2		1999	0519		EP 1	997-	9345	23		1	9970	723
EP	9158	46			В1		2003	0423									
	R:	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	NL,	PT				
BR	9711	024			A		1999	0817		BR 1	997-	1102	4		1	9970	723
CN	9711 1232	450			A		1999	1020		CN 1	997-	1985	54		1	9970	723
CN	1240	579			C		2006	0208									
HU	2000	0018	33		A2		2000	0828		HU 2	000-	1833			1	9970	723
HU	2000	0018	33		A3		2001	1228									
JP	2000 4202	5169	18		Т		2000	1219		JP 1	998-	5075	41		1	9970	723
JP	4202	423			В2		2008	1224									
	1277														1	9970	723
	1277						2006										
	R:	BE.	CH.	DE.	DK.	ES.	FR.	GB.	GR.	IT.	LI.	NL.	PT				
	1277						2003								1	9970	723
	R:	BE.	CH,	DE.	DK.	ES.	FR.	GB,	GR,	IT.	LI.	NL.	PT				
EP	1277				A1		2003	0122							1	9970	723
EP	1277	751			В1		2006	1102									
	R:	BE.	CH.	DE.					GR.	IT.	LI.	NL.	PT				
EP	1277			,			2003								1	9970	723
EP	1277	734					2007						-		_		
	R:			DE.						TT.	T.T.	NI	PT				
EP	1277						2003								1	9970	723
	R:			DE.	DK.	ES.	FR.	GB.	GR.	IT.	LI.	NL.	PT				
re	2193			/	Т3	_~,	2003	1101		ES 1	997-	9345	23		1	9970	723
	1282	35			A		2004	0328		TT. 1	997-	1282	35		7	997n	723

L8 ANSWER 157 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued) \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* 241144-52-5 CAPLUS RN 241144-02-0 CAFBOO
CATEGOTIC CATEGOTIC
CATEGOTIC CATEGOTIC
3-(3'-chloro-3,5-dimethyl[1,1'-biphenyl]-4-yl)-8-methoxy-2oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester (CA INDEX NAME) \*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\* THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IL 1550	70	A	20050725	IL	1997-155070		19970723
CN 16513		A	20050810	$\mathbb{C}\mathbb{N}$	2004-10100062		19970723
CN 10033			20070926				
CN 18652					2006-10058906		19970723
CN 18960					2006-10100335		19970723
CN 19318 ES 22711					2006-10101104 2002-23657		19970723 19970723
ES 22711					2002-23659		19970723
ES 22788					2002-23660		19970723
CN 10140			20090408		2008-10100024		19970723
ZA 97069			19980210		1997-6915		19970804
US 61143	374	A	20000905	US	1999-230653		19990128
KR 20000	29671	A	20000525	KR	1999-700749		19990129
US 62553			20010703		2000-548129		20000412
US 20020			20020124	US	2001-809619		20010315
US 63591			20020319				
US 65040			20030107		2001-6115		20011210
US 65968			20030722		2002-264424		20021004
IN 2008I IN 2008I			20081226		2008-DE1720 2008-DE1784		20080722
JP 20091			20091226		2008-202324		20080729
PRIORITY APPI		A	20090416		1996-19631586	T.	
PKIOKIII MPPI	IN. INFO.:			DE	1990-19031300	Λ	19900000
				DE	1997-19716591	A	19970421
				IN	1997-DE1965	АЗ	19970715
				CN	1997-198554	A3	19970723
				cov.r	2004-10100062	3.7	10070707
				CIV	2004-10100062	MO	19970723
				EP	1997-934523	АЗ	19970723
				IL	1997-128235	АЗ	19970723
				JP	1998-507541	AЗ	19970723
				WO	1997-EP3973	W	19970723
					1000 000000		
				US	1999-230653	A3	19990128
				TTC	2000-548129	7.7	20000412
				03	2000-346129	MO	20000412
				US	2001-809619	АЗ	20010315
				US	2001-6115	АЗ	20011210
OTHER SOURCE	(S): C	ASREAC	T 128:180328	; N	MARPAT 128:180328		
GI							

L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

(Continued)

Page 22 saeed

L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

$$Q^{1} = \begin{pmatrix} Q^{2} & Q^{2} & Q^{2} & Q^{2} \end{pmatrix}$$

AB Title compds. [I; X = halo, alkyl, alkenyl, alkynyl, alkoxy, benzyloxy, haloalkyl, haloalkoxy, cyano, NO2; Z = H, amino, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, Oh, cyano, NO2; Z = H, amino, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, Oh, cyano, NO2; (substituted) PhO, PhS, heteroaryloxy, heteroarylthio, phenylalkoxy, phenylalkylthio; Q = Ql, Q2; Y = NH, O, S; A = (substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heteroaryl; B = alkyl, alkoxyalkyl, AB, AD = atoms to form (unsatd.) (substituted) carbocyclic or heterocyclic rings; D = H, (substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (unsatd.) cycloalkyl, heterocyclyl, aralkyl, aryl, heteroarylalkyl, heteroaryl; G = H, acyll, were prepared Thus, title compound (II) (preparation given) at 0.15 gave

100 % kill of Phaedon cochleariae larvae on cabbage leaves.

11 203313-22-B2 203313-25-1P 203313-27-3P 203313-31-P2 203313-33-P2 203313-35-P2 203313-35-P3 20331

Relative stereochemistry

L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

Relative stereochemistry.

RN 203313-32-0 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 203313-33-1 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

203313-34-2 CAPLUS
Carbonic acid, ethyl 8-methoxy-3-(2-methoxy-5-methylphenyl)-2-oxo-1azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

203313-25-1 CAPLUS
Carbonic acid, cis-3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

Relative stereochemistry.

203313-27-3 CAPLUS

NN 200510-2/-- CAPLOS

(N. Carbonic acid,
3-(2,5-dimethylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

203313-31-9 CAPLUS

RN 20315-31-7 CALDIO Carbonic acid, 3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4,5]dec-3-en-4-yl 2-methylpropyl ester, cis- (9CI) (CA INDEX NAME)

ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

203313-35-3 CAPLUS Carbonic acid, 3-(2-bromo-5-methoxyphenyl)-8-methoxy-2-oxo-1-azaspiro(4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

203313-36-4 CAPLUS Carbonic acid, 3-(2-chloro-5-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 203313-37-5 CAPLUS CN Carbonic acid, 3-(2,5-dibromophenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued) L8 ANSWER 158 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

RN 203313-38-6 CAPLUS CN Carbonic acid, 3-(2,5-dimethylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

203313-39-7 CAPLUS

CN Carbonic acid,
3-(2,5-dimethylphenyl)-8-ethoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl phenylmethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

20

L8 ANSWER 159 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:679056 CAPLUS
DOCUMENT NUMBER: 127:318875
ORIGINAL REFERENCE NO.: 127:62493a,62496a
TITLE: Arylheterocyclic keto enols as pesticides and herbicides
INVENTOR(S): Lieb, Volker; Hagemann, Hermann; Widdig, Arno;
Ruther.

Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Graff, Alan; Schneider, Udo Bayer A.-G., Germany; Lieb, Volker; Hagemann,

PATENT ASSIGNEE(S): Hermann;

Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al. PCT Int. Appl., 192 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent German 1 LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

						-										-		
WO	9736																	
	W:						CA,				J,	IL,	JP,	KR,	KZ,	LK,	MX,	NO
							TR,											
	RW:																	
							CI,											
DE	1964	9665			A1		1997	1009		DE	19	96-:	1964	9665		1	9961	129
IN	1997	DE00	661		A		2005	0311		IΝ	19	97-1	DE66:	1		1	9970	317
	2250				A1		1997	1009		CA	19	97-2	2250	417		1	9970	321
ΑU	9722	900			A		1997	1022		ΑU	19	97-2	2290	0		1	9970	321
	7258	52			B2		2000	1019										
EP	8913	30			A1		1999	0120		EP	19	97-9	9154	9		1	9970	321
	8913																	
	R:	BE,	CH,	DE,	ES,	FR,	GB,	GR,	IT,	L	Ι, Ί	NL,	PT					
CN	1215	390			A		1999	0428		CN	19	97-	1935	92		1	9970	321
BR	9708	425			A		1999	0803		BR	19	97-8	3425			1	9970	321
JP	2000 4153	5075	64		T		2000	0620		JP	19	97-5	5348	75		1	9970	321
JP	4153	040			B2		2008	0917										
TR	9801	990			T2		2000	0621		TR	19	98-	1990			1	9970	321
IL	1263	57			A		2003	1031		IL	19	97-	1263	57		1	9970	321
CN	1535	956			A		2004	1013		CN	20	04-	1003	4295		1	9970	321
CN	1631	879			A		2005	0629		CN	20	04-3	1009	5691		1	9970	321
ES	2259	804			Т3		2006	1016		ES	19	97-9	9154	9		1	9970	321
EP	1721	522			A2		2006	1115		EP	20	05-2	2667	4		1	9970	321
EP	1721	522			A3		2007	0103										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GI	3,	GR,	IE,	IT,	LI,	LU,	MC,	NL
		PT,	SE															
KR	2000 6140 2001	0049	94		A		2000	0125		KR	19	98-	70 76	06		1	9980	925
US	6140	358			A		2000	1031		US	19	98-	1556	37		1	9980	929
US	2001	0004	629		A1		2001	0621		US	20	00-5	5501	05		2	0000	414
US	6271	190			B2		2001	0807										
US	6388	123			В1		2002	0514		US	20	01-8	3716	11		2	0010	601
US	6486	343			B1		2002	1126		US	20	02-	7435	1		2	0020	212
	APP									DE	19	96-	1961	3171		A 1	9960	402

L8	ANSWER	159	OF	163	CAPLUS	COPYRIGHT		ACS on STN 1996-19649665	(Cont	inued) 19961129
							EP	1997-915409	A3	19970321
							WO	1997-EP1426	W	19970321
							US	1998-155637	A3	19980929
							US	2000-550105	АЗ	20000414
							US	2001-871611	A3	20010601

MARPAT 127:318875

AB Title compds. were prepared Thus, 3,2,6-Cl(Me)2C6H2CH2CO2H was treated with

Me cis-1-amino-4-methylcyclohexanecarboxylate and cyclized with base to give the pyrrolinone I. At 0.1% I gave 100% control of Nephotettix cincticeps on rice.
197710-15-9P 197710-16-0P 197710-17-1P
197710-18-2P 197710-20-6P 197710-21-7P

197710-22-8P

197710-22-8F
R1: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREF (Preparation); USES (Uses)
(preparation of arylheterocyclic keto enols as insecticides and acaricides)
RN 197710-15-9 CAPLUS
CN Carbonic acid, 3-(3-bromo-2,6-dimethylphenyl)-8-methoxy-2-oxo-1araspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

197710-16-0 CAPLUS Carbonic acid, 3-(3-bromo-6-methoxy-2-methylphenyl)-8-methoxy-2-oxo-1-

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ANSWER 159 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME) (Continued)

Relative stereochemistry.

197710-17-1 CAPLUS
Carbonic acid, 3-(3-bromo-2,4,6-trimethylphenyl)-8-methoxy-2-oxo-1azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

197710-18-2 CAPLUS
Carbonic acid, 3-(3-bromo-2,6-dichlorophenyl)-8-methoxy-2-oxo-1azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

197710-20-6 CAPLUS Carbonic acid, 8-methoxy-2-oxo-3-(2,3,4,5-tetramethylphenyl)-1-

L8 ANSWER 159 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued) RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 159 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME) (Continued)

Relative stereochemistry.

RN 197710-21-7 CAPLUS CN Carbonic acid, 3-(2,3-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

197710-22-8 CAPLUS

Carbonic acid, 8-methoxy-2-oxo-3-(2,4,6-trichloro-3-methylphenyl)-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

REFERENCE COUNT: THIS 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR

L8 ANSWER 160 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:140239 CAPLUS
DOCUMENT NUMBER: 126:144113
ORIGINAL REFERENCE NO.: 126:27857a,27860a
TITLE: Preparation of 3-phenylheterocycloalkyl-2,4-dione enols as herbicides and pesticides
INVENTOR(S): Lieb, Folker; Hagemann, Hermann; Widdig, Arno; Ruther. INVENTOR(S): Ruther,

Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Santel, Hans-Joachim; Dollinger, Markus; Graff, Alan; Mencke, Norbert; Turberg, Andreas; Dahmen, Peter Bayer A.-G., Germany Ger. Offen, 94 pp. CODEN: GWXXBX Patent German 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT				NT:	1												
PA	TENT	NO.			KIN	D	DATE			API	LICAT	ION	NO.			DATE	
	1960 9701	2524 535			A1 A1		1997 1997	0102 0116		DE WO	1996-	1960 EP26	2524 06			19960 19960	125 1617
	W :						UA,		C2,	п	), OF,	nn,	ra,	LIN,	Pin	, 100,	1924,
	DW.								TD	CT	3, GR,	TF	тт	TIT	MC	NII	DT
	1/14										I, ML,						
AIT	9663	n42	DI,	DU,	A,	CG,	1997	0130	Gri,	AII	1996-	6304	2	D11,	11	19960	1617
AIT	7098	48			B2		1999	nana			1996-		_			10000	
EP	8378	47			A1		1998	0429		EP	1996-	922n	05			19960	1617
	8378	47			B1		2002	0923		TIL	1996-	2220	0.5			10000	.01,
		73.77	C11	T1.77	77.07	TTT	com.	con.	TOTAL								
CN	1198	154	011,	22,	A,	,	1998	1104	,	CN	1996-	1965	13			19960	1617
CN	1173	947			C		2004	1103									
HU	9802	866			A2		1999	0329		нп	1998-	2866				19960	1617
HU	9802	866			A.3		2001	1228									
BR	9609	250			A		1999	0518		BR	1998- 1996-	9250				19960	617
JP	1150	8880			т		1999	0803		JP	1997-	5041	36			19960	1617
.TP	4082	724			B2		2008	0430									
RU	2195	449			C2		2002	1227		RU	1998-	1017	01			19960	617
ES	2180	786			Т3		2003	0216		ES	1996-	9220	05			19960	617
IN	1996	DEO1	402		A		2005	0311		IN	1998- 1996- 1996- 1996- 1996-	DE.14	02			19960	1625
ZA	9605	465			A		1997	0124		ZA	1996-	5465				19960	1627
TW	4767	54			В		2002	0221		TW	1996-	8510	7720			19960	1627
US	6110	872			A		2000	0829		US	1997-	9830	28			19971	.222
US	6511	942			B1		2003	0128		US	2000- 2002-	4966	16			20000	202
US	2003	0171:	219		A1		2003	0911		US	2002-	2470	13			20020	919
US	6933	261			B2		2005	0823									
US	2005	0038	021		A1		2005	0217		US	2004-	9235	57			20040	1820
	7256						2007	0814									
PRIORIT	Y APP	LN.	INFO	. :						DE	1995-	1952	3471		A1	19950	1628
										DE	1996-	1960	2524		A	19960	125
										WO	1996-	EP26	06		W	19960	617
										US	1997-	9830	28		АЗ	19971	222

Page 25 saeed

ANSWER 160 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN US 2000-496616 (Continued) A3 20000202

A3 20020919 US 2002-247013

OTHER SOURCE(S): MARPAT 126:144113

Title compds. [I; R = 4-(O-acyl)hydroxy-2-oxo-3-pyrrolinyl, 2,5-dihydro-3-furyl, 2,5-dihydro-3-thienyl, etc.; R1 = halo, alkyl, alkoxy, etc.; R2 = H, halo, alkyl, alkoxy, etc.; R3 = halo, alkyl,

etc.] were prepared Thus, 2,4,3-mesocaracasas program anidated

by Me cis-1-amino-4-methylcyclohexanecarboxylate and the product cyclized to give title compound II. Data for biol. activity of I were given.

II 18647-58-5P 186647-59-5P 8AC (Biological activity or effector, except adverse); BSI (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 3-phenylheterocycloalky1-2,4-dione enols as barbicides and

codes and
pesticides)
186647-58-5 CAPLUS
Carbonic acid, 8-methoxy-2-oxo-3-(2,4,5-trimethylphenyl)-1azaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, cis- (9CI) (CA INDEX

Relative stereochemistry.

186647-59-6 CAPLUS

Carbonic acid, 8-methoxy-2-oxo-3-(2,4,5-trimethylphenyl)-1-

ANSWER 161 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

CAPLUS COPYRIGHT 2009 ACS on STN
1997:41800 CAPLUS
126:74741
126:14465a,14468a
Alkyl dihalogenated phenyl-substituted keto enols
useful as pesticides and herbicides
Lieb, Folker; Hagemann, Hermann; Widdig, Arno; TNVENTOR(S):

Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Dahmen, Peter; Dollinger, Markus; Santel, Hans-Joachin; et al. Bayer A.-G., Germany; Lieb, Folker; Hagemann,

PATENT ASSIGNEE(S):

Widdig, Arno; Ruther, Michael; Fischer, Reiner; Bretschneider, Thomas; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; et al. PCT Int. Appl., 231 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

German

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

Hermann;

PATENT NO. KIND APPLICATION NO. DATE DATE A1 WO 9635664 19961114 WO 1996-EP1781 19960429 9635664 W: AU, BB, BG, PL, RO, RU, RW: AT, BE, CH, SE, BF, BJ, AI 19901114 WO 1990-EFI/SI 19901429 BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, SK, TR, UA, US DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, CI, CM, GA, GN, ML, MR, NE, SN, 19961114 DE 1995-19545467 D19961114 CA 1996-2220440 SE, BF, DE 19545467 CF, A1 CG. TD, TG 19951206 IN 1996DE00865 A A1 20050311 19960423 CA 2220440 19961114 19960429 AU 9657626 EP 825982 19961129 19980304 AU 1996-57626 EP 1996-914146 19960429 A A1 EP 825982 EP 825982 19960429 20021127 R: BE, CH, DE, ES, FR, GB, IT, LI, NL
CN 1189153 A 19980729 CN 1996-195072 19960429 CN 1131209 BR 9608229 20031217 19981229 BR 1996-8229 JP 1996-533707 19960429 JP 11505220
JP 4153033
ES 2184858
CN 1473814
CN 1221514
ZA 9603633
US 6316486
US 6380246
US 20030199572
US 6858741
US 20051064885
IN 2008DE00319
PRIORITY APPLN. INFO.: JP 11505220 19990518 19960429 19990518 20080917 20030416 20040211 20051005 19961125 20011113 20020430 20031023 20050222 20050728 20090403 ES 1996-914146 CN 2003-2003136022 19960429 19960429 ZA 1996-3633 US 1997-945664 US 1999-404424 US 2001-17695 19960508 19960508 19971031 19990923 20011214 US 2004-903550 IN 2008-DE319 DE 1995-19516258 20040730 20080205 DE 1995-19545467 A 19951206 IN 1996-DE865 A3 19960423

ANSWER 160 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Conazaspiro[4.5]dec-3-en-4-yl 2-methylpropyl ester, trans- (9CI) (Continued) (CA INDEX

Relative stereochemistry.

L8 ANSWER 161 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN WO 1996-EP1781 (Continued) W 19960429 US 1997-945664 B3 19971031 US 1997-945665 A3 19971031 US 1999-404424 A3 19990923 US 2001-17695 A3 20011214

MARPAT 126:74741

$$\mathbf{Q}^{6} = \begin{array}{c} \mathbf{OG} & \mathbf{I} - \mathbf{Pr} & \mathbf{M} \\ \mathbf{M} & \mathbf{C} \\ \mathbf{I} & \mathbf{C} \\ \mathbf{I} & \mathbf{I} \end{array}$$

Title compds. I [X = halo, Y, Z = halo or alkyl, provided that 1 of Y and Z always = halo, and the other = alkyl; Het = 1 of the heterocyclic

Z always = halo, and the otner = alkyl, not - 1 ...

groups

Q1-Q6; A = H, (halo)alkyl, alkenyl, alkoxyalkyl, (un)substituted
cycloalkyl or heteoroyclyl, etc.; B = H, alkyl, alkoxyalkyl; D = H,
(un)substituted alk(en/yn)yl, alkoxyalkyl, cycloalkyl, aralkyl,
heteoroyclyl, aryl, etc.; A and B, or A and D, may form (un)substituted
carbo- or heterocyclic rings; G = various acyl, sulfonyl, or phosphoryl
substituents, or metal or ammonium ions] are prepared Also disclosed are
several processes for preparing the compds., and their use as pesticides
and

herbicides. For example, amidation of 2,4-dichloro-6-methylphenylacetic acid with H2NC(Me)(i-Pr)CN via the acid chloride using SOC12 (81%), followed by alcoholysis of the nitrile using H2SO4 and MeOH quench (73%),

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ANSWER 161 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued) and cyclization of the resultant ester with KOBu-tert in THF (73%), gave title compol II. In a test against Myzus persicae at 0.1%, II gave 100% kill in 6 days. At 250 g/ha preemergence, selected I gave 80-100% kill L8

of

4 weeds with 0-50% damage to Beta vulgaris.

1T 185151-33-1P 185151-35-3P 185151-36-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Synthetic preparation); BIOL (Biological study); FREP (Preparation); USES (Uses) (preparation of alkyldihalophenyl-substituted keto enols as pesticides and

icides and herbicides) 185151-33-1 CAPLUS Carbonic acid, 3-(2,6-dichloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

185151-35-3

185151-35-3 CAPLUS Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro(4.5]dec-3-en-4-yl ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

185151-36-4 CAPLUS

Carbonic acid, 3-(2,4-dichloro-6-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ANSWER 162 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

INVENTOR(S):

CAPLUS COPYRIGHT 2009 ACS on STN
1995:954606 CAPPUS
122:339723
122:60967a,60970a
Preparation of 1H-3-arylpyrrolidine-2,4-dione
pesticides and herbicides
Fischer, Reiner; Bretschneider, Thomas; Krueger,
Bernd-Wieland; Ruther, Michael; Erdelen, Christoph;
Wachendorff-Neumann, Ulrike; Santel, Hans-Joachim;
Dollinger, Markus
Bayer A.-G., Germany
Ger. Offen., 126 pp.
CODEN: GWXEX
Patent
German
1

PATENT ASSIGNEE(S):

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND APPLICATION NO. DATE DATE DE 4431730 US 5622917 EP 668267 EP 668267 19950810 19970422 19950823 19980408 A1 DE 1994-4431730 US 1995-383801 EP 1995-101136 19940906 A Al 19950103 19950127 EP 668267 B1 19980408
R: BE, CH, DE, ES, FR, GB, IT, LI, NL
ES 2114238 T3 19980516 ES 1995-101136
CA 2141923 A1 19950810 CA 1995-2141923
AU 9511570 A 19950817 AU 1995-1157
JP 07252222 A 19951003 JP 1995-42613 В1 CA 2141923 AU 9511570 JP 07252222 JP 3626235 19950206 19950206 19950208 A A B2 19951003 20050302 ZA 1995-1006 19950208 ZA 9501006 19951011 BR 9500475 CN 1110680 19960227 BR 1995-475 CN 1995-101670 19950208 19950209 19951025 CN 1080719 20020313 US 5847211 PRIORITY APPLN. INFO.: 19981208 US 1996-759352 DE 1994-4404001 19961203 A1 19940209 DE 1994-4431730 A 19940906 US 1995-383801 A3 19950203

OTHER SOURCE(S): MARPAT 123:339723

ANSWER 161 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 162 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ABSWER 162 OF 163 CAPLUS COPYRIGHT 2009 ACS ON STM (Continued)

AB The title compds. [I; A = H, (un)substituted alkyl, alkenyl, (un)substituted cycloalkyl, (un)substituted aryl or heteroaryl; B = H, alkyl, alkoxyalkyl; G = H, (un)substituted carbonyl derivs., (un)substituted sulfonyl derivs., etc.; X, Y = halogen, alkyl), useful as pesticides and herbicides, are prepared Thus, pyrrolidinedione β-isomer (II; m.p. >230°) was prepared and demonstrated 95% control of Tetranychus urticae-infected Phaseolus vulgaris at 0.02% II over 7 days.

IT 170920-94-2P 170920-95-3P 170921-08-1P 170921-09-2P RI: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of IH-3-arylpyrrolidine-2,4-dione pesticides and herbicides)

N 170920-94-2 CAPLUS

CN Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

170920-95-3 CAPLUS
Carbonic acid, 3-(2-chloro-4-methylphenyl)-8-methoxy-2-oxo-1azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

170921-08-1 CAPLUS Carbonic acid, 3-(4-chloro-2-methylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl ethyl ester (CA INDEX NAME)

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L8 ANSWER 162 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

170921-09-2 CAPLUS
Carbonic acid, 3-(4-chloro-2-methylphenyl)-8-methoxy-2-oxo-1azaspiro[4.5]dec-3-en-4-yl 1-methylpropyl ester (CA INDEX NAME)

ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN

ESSION NUMBER: 1994:680537 CAPLUS

IMMENT NUMBER: 121:280537

IZ1:280537

IZ1:280537

IZ1:5215a,51218a

Preparation of 5-spiro substituted

1-H-3-arylpyrrolidin-2,4-dione derivatives as herbicides, insecticides and acaricides

ENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger, nd ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

TITLE:

Wieland; Erdelen, Christoph; Santel, Hans Joachim; Luerssen, Klaus; Schmidt, Robert R.; Wachendorff-Weumann, Ulrike; Stendel, Wilhelm Bayer A.-G., Germany Eur. Pat. Appl., 107 pp. CODEN: EPXXDW Patent German 1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

INVENTOR(S):

								DATE					
	ΕP	59629	8			A2		19940511	EF	1993-	116687		19931015
								19940720					
	ΕP	59629	8			В1		20020109					
		R:	BE,	CH,	DE,	ES,	FR,	GB, GR,	IT, I	J, NL,	PT		
	DE	43269	909			A1		19940505	DE	1993-	4326909		19930811
	ΑU	93475	540			A		19940512	AU	1993-	47540		19930922
		66604				B2		19960125					
	ES	21700	063			Т3		20020801 19951031	ES	1993-	116687		19931015
	US	54629	913			A		19951031	US	1993-	140635		19931021
	CA	21091	161			C		19940429	CF	1993-	2109161		19931025
								19940429					
								19940920	JE	1993-	287228		19931025
								20030811					
								19940510					
	ZA	93079	88			A		19940803 19940504	ZZ	1993-	7988		19931027
	CN	10862	213			A		19940504	Cl	1 1993-	119576		19931028
								19990728					
								19950810			20285		19950525
	ΑU	67561	16			B2		19970206 19971014					
	US	56774	149			A		19971014	US	1995-	462488		19950605
								19980819	Cl	1 1997-	125568		19971219
	CN	10655	524			C		20010509					
PRIOR	IT	' APPI	N.	INFO	. :				DE	1992-	4236401	Α	19921028
									DE	1993-	4326909	A	19930811
									US	1993-	140635	АЗ	19931021

OTHER SOURCE(S): MARPAT 121:280537

ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

AB The preparation of title compds. I [A, B = (un)substituted carbocyclic ring; X
= alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; G = H, organocarbonyl, organosulfonyl, organophosphonyl, anido; alkali metal or ammonium salts], useful as herbicides, insecticides, and acaricides, is described. Thus, NaH mediated cyclization of Me
N-(2,4,6-trimethylphenylacetyl)-l-amino-4-tert-butylcyclohexanecarboxylate in PhMe gave 63% title compound II. Phaedon, Plutella, and Nephotettix-tests of some of the compds. prepared is given.
II 158866-98-9P 158866-99-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide, insecticide, and acaricide)
RN 15886-98-9 CAPLUS
CN Carbonic acid, ethyl 8-methoxy-2-oxo-3-(2,4,6-trimethylphenyl)-1-araspiro(4.5)dec-3-en-4-yl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

158866-99-0 CAPLUS
Carbonic acid, ethyl 8-methoxy-2-oxo-3-(2,4,6-trimethylphenyl)-1azaspiro[4.5]dec-3-en-4-yl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L8 ANSWER 163 OF 163 CAPLUS COPYRIGHT 2009 ACS on STN (Continued)

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION

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